England - KS1 Curriculum For Sustainability
Complementing the KS1 Framework England

English	Mathematics	Science and Geography	Computing/ Design and Technology	History	Art and Design/Music	Personal, Social, Health and Economic Education (PSHE) Citizenship
Reading Writing Speaking and Listening	Number and Place Value Addition and Subtraction Multiplication and Division Fractions Measurement Geometry Statistics	Working Scientifically Plants Animals, including humans Everyday Materials Seasonal Changes Living Things and their Habitats Light and Sound **Geography** Locational Knowledge	Computer Science (coding, algorithms, computational thinking) Information Technology (using software, internet safety) Digital Literacy (understanding digital devices and their uses) Designing Making	Changes within Living Memory Events beyond Living Memory Significant Historical Figures and Events Historical Interpretation	Drawing Painting Sculpture Printing Textiles Collage Digital Art **Music** Singing Playing Instruments	Health and wellbeing Financial literacy Citizenship **Citizenship** Rights and responsibilities Democracy Law and justice British values

		(countries, continents, oceans) Place Knowledge (local area, UK) Human and Physical Geography Geographical Skills and Fieldwork	Evaluating Technical Knowledge		Listening and Appraising Composing Performing **Physical Education (PE)** Games Dance Outdoor and Adventurous Activities (OAA)	

The Sustainability Curriculum Headings

Understanding Sustainability	Environmental Awareness	Environmental Stewardship	Waste Management	Energy Conservation **(SUS5)**	Biodiversity and Ecosystems **(SUS6)**

(SUS1)	(SUS2)	(SUS3)	(SUS4)		
Climate Change and Adaptation **(SUS7)**	Food and Agriculture **(SUS8)**	Water Conservation **(SUS9)**	Sustainable Transport and Urban Planning **(SUS10)**	Citizenship / Global Responsibility and Sustainable Development **(SUS11)**	Outdoor Learning and Connection to Nature **(SUS12)**

Understanding Sustainability (SUS1)						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Comprehension:** Develop comprehension skills by reading sustainability-themed picture books, such as "The Lorax" by Dr. Seuss or "The Great	**Mathematics Teaching:** **Number and Place Value:** **Counting Natural Resources:** Count and represent	**Working Scientifically:** **Observation Skills:** Develop observation skills by identifying sustainable and	**Computer Science:** **Coding:** Understand that computers can be programmed to perform tasks that help solve	**Changes within Living Memory:** Identify and discuss changes in environmental practices and attitudes towards	**Art and Design:** **Drawing:** Understand how to depict sustainable practices and environmental concepts through	**Personal, Social, Health and Economic Education (PSHE):** **Sustainability Awareness:** Recognize the importance of taking care of the

Kapok Tree" by Lynne Cherry, and discussing the key environmental messages. **Identifying Themes:** Identify and discuss sustainability themes in literature, such as conservation, recycling, and protecting natural habitats, through guided reading activities. **Understanding Cause and Effect:** Explore cause-and-effect relationships in sustainability narratives, such as how human actions impact the environment and the consequences of	quantities of natural resources, such as trees, animals, or water bodies, to understand their importance and conservation. **Addition and Subtraction:** **Environmental Impact Calculations:** Add and subtract quantities to calculate environmental impacts, such as carbon emissions, water usage, or waste generation, promoting awareness of resource consumption and conservation.	unsustainable practices in everyday life, such as recycling habits or energy usage. **Investigation:** Conduct simple investigations to explore the effects of human activities on the environment, such as investigating the growth of plants in different types of soil or water conditions. **Data Recording:** Practice recording data related to sustainability, such as keeping a nature journal to track changes	environmental challenges, such as monitoring air quality or managing energy consumption. Explore basic coding concepts like sequencing and loops through simple programming activities related to sustainability, such as coding a virtual plant watering system. **Algorithms:** Recognise that algorithms are sets of instructions used by computers to solve problems and that they can be applied to environmental issues, such as sorting recycling materials or	sustainability within their own lifetime and that of their family members. Recognize the impact of small everyday actions on the environment, such as recycling, reducing waste, and conserving energy and water. Understand the importance of sustainable behaviours in preserving natural resources for future generations. **Events beyond Living Memory:**	drawing. Learn to illustrate elements of nature, such as plants, animals, and landscapes, and their importance in sustaining life. Explore drawing techniques that convey messages of conservation and stewardship. **Painting:** Use painting to express ideas related to sustainability and environmental awareness. Experiment with using eco-friendly paints and natural pigments derived from plants and	environment and its impact on personal and community well-being. Understand basic concepts of sustainability such as reduce, reuse, and recycle. Identify simple everyday actions that contribute to sustainability, such as saving water, energy, and reducing waste. **Respect and Empathy:** Develop respect and empathy towards nature and living beings. Understand the interconnectedness between humans, animals, plants, and

unsustainable practices. **Writing:** **Creative Writing:** Encourage creative expression by writing stories, poems, or essays inspired by sustainability themes, using imagination to explore solutions to environmental challenges. **Persuasive Writing:** Practise persuasive writing skills by composing letters or posters advocating for environmental conservation or raising awareness about specific sustainability issues. **Descriptive Writing:**	**Multiplication and Division:** **Resource Distribution Problems:** Use multiplication and division to solve problems related to resource distribution and allocation, encouraging critical thinking about equitable access to resources and sustainable management. **Fractions:** **Fractional Parts of Resources:** Understand fractions by representing	in local habitats or recording energy usage at home. **Science:** **Plants:** Understand the importance of plants in the ecosystem and how they contribute to sustainability, such as by absorbing carbon dioxide and providing oxygen. **Animals, including humans:** Explore the interdependence of humans and animals in ecosystems and the importance of	optimising energy usage. **Computational Thinking:** Develop computational thinking skills by identifying patterns and decomposing problems related to sustainability, such as creating step-by-step instructions for recycling or conserving water at home. **Information Technology:** **Using Software:** Learn to use educational software and digital tools to explore sustainability	Explore historical events that have had significant environmental impacts, such as the Industrial Revolution, the invention of the automobile, or major environmental disasters. Understand how past events have contributed to current environmental challenges and the need for sustainable solutions. Develop an appreciation for the interconnected	minerals. Create paintings that depict the beauty of nature and the need for its protection. **Sculpture:** Create sculptures using recycled materials to highlight the importance of reducing waste and reusing resources. Explore sculptural forms inspired by nature, such as animals, plants, and ecological systems. Reflect on the environmental impact of different sculptural materials and	the environment. Explore feelings and emotions associated with environmental issues, such as concern for endangered species or pollution. **Collaboration and Cooperation:** Engage in collaborative activities to address environmental challenges within the school and local community. Develop skills in working together to achieve common goals related to sustainability. Understand the importance of cooperation and teamwork in protecting the

Develop descriptive writing skills by describing natural environments, such as forests, oceans, or wildlife habitats, using vivid language to evoke sensory experiences. **Speaking and Listening:** **Discussion:** Engage in group discussions about sustainability topics introduced in picture books, encouraging students to share their opinions, ask questions, and listen to diverse perspectives. **Oral Presentations:** Prepare and deliver	fractional parts of natural resources, such as fractions of a forest area or a water body, promoting understanding of resource conservation and sustainability. **Measurement:** **Measuring Environmental Data:** Use measurement skills to collect and analyse environmental data, such as temperature, rainfall, or air quality, fostering scientific inquiry and understanding of environmental	biodiversity for sustainable living. **Everyday Materials:** Identify everyday materials and their properties, considering their sustainability and environmental impact, such as recycling plastic or reusing paper. **Seasonal Changes:** Observe and record seasonal changes in the local environment and discuss how they impact living things and habitats. **Living Things and their Habitats:**	topics, such as interactive simulations of renewable energy sources or virtual tours of eco-friendly buildings. **Internet Safety:** Understand the importance of internet safety when researching sustainability topics online, including identifying trustworthy sources and practising responsible online behaviour. **Digital Literacy:** **Understanding Digital Devices:**	ness of human history and the natural world. **Significant Historical Figures and Events and Sustainability and Environmentalists:** Learn about historical figures who have played important roles in promoting environmental conservation and sustainability, such as Rachel Carson, John Muir, or Wangari Maathai. Understand the contributions of these	techniques. **Printing:** Learn about sustainable printing methods, such as block printing and eco-friendly inks. Create prints that communicate messages of sustainability and environmental stewardship. Experiment with printing techniques to produce artwork inspired by nature and wildlife. **Textiles:** Explore sustainable textile practices, such as using organic or	environment. **Citizenship:** **Rights and Responsibilities:** Understand the right to a clean and healthy environment as a fundamental human right. Recognize the responsibility to take care of the environment for present and future generations. Explore the concept of environmental stewardship and its implications for citizenship. **Democracy and Participation:** Learn about democratic decision-making processes related to

oral presentations on sustainability themes, such as presenting findings from research on endangered species or sharing ideas for eco-friendly practices. **Role-Playing:** Role-play scenarios related to sustainability, such as acting out conversations between characters in a picture book who are solving environmental problems or discussing ways to reduce waste. **Sustainability Picture Book Themes:** **Conservation:** Explore stories about protecting wildlife,	sustainability. **Geometry:** **Geometric Shapes in Nature:** Identify and describe geometric shapes found in nature, such as the symmetry of leaves or the patterns of tree branches, connecting mathematical concepts with the natural world. **Statistics:** **Analysing Environmental Trends:** Collect and analyse data on	Investigate different habitats and the living things that inhabit them, discussing how human activities can affect these habitats and their sustainability. **Light and Sound:** Explore how light and sound pollution can impact the environment and discuss ways to reduce these forms of pollution for sustainability. **Geography:** **Locational Knowledge:**	Identify different digital devices and understand how they can be used to support sustainability efforts, such as using tablets or smartphones to monitor energy usage or track environmental data. **Design and Technology:** **Designing:** Develop design skills by creating simple prototypes or models of eco-friendly inventions or solutions, such as designing a compost bin or a water-saving device.	individuals to environmental movements and the preservation of natural habitats**.** Explore key historical events related to environmental conservation, such as the establishment of national parks, the creation of environmental laws, or the adoption of sustainable farming practices. **Historical Interpretation:** Develop skills in analysing and interpreting	recycled fabrics. Learn basic textile techniques like weaving, stitching, and dyeing to create environmentally themed artworks. Understand the importance of sustainable fashion and textile production in reducing environmental impact. **Collage:** Create collages using recycled materials to convey messages of sustainability and conservation. Explore themes of nature and environmental protection through collage	environmental issues. Explore ways in which individuals can participate in environmental decision-making within their community. Understand the importance of listening to diverse perspectives and finding consensus on environmental issues. **Law and Justice:** Understand the role of laws and regulations in protecting the environment. Explore environmental justice issues and how they affect different

preserving natural habitats, and restoring ecosystems. **Recycling:** Discover books that emphasise the importance of reducing, reusing, and recycling resources to minimise waste. **Renewable Energy:** Read about innovative solutions for harnessing renewable energy sources like solar, wind, and hydro power. **Community Action:** Learn about community-based initiatives and grassroots movements aimed at promoting sustainability and environmental	environmental trends, such as deforestation rates or wildlife populations, using statistical techniques to understand patterns and make informed decisions for sustainability. **Maths Picture Books to Support:** **"One Plastic Bag: Isatou Ceesay and the Recycling Women of the Gambia" by Miranda Paul** This book introduces concepts of recycling and environmental sustainability through the story	Learn the names and locations of countries, continents, and oceans, discussing how different regions may face unique sustainability challenges. **Place Knowledge:** Develop an understanding of the local area and the UK, exploring how geography influences sustainability practices and resources. **Human and Physical Geography:** Investigate human impact on the environment,	**Making:** Engage in hands-on making activities to bring sustainability-foc used designs to life, using materials like recycled paper, cardboard, or natural materials. **Evaluating:** Learn to evaluate the effectiveness of their designs and solutions in addressing sustainability challenges, considering factors such as functionality, durability, and environmental	historical sources related to environmental issues, such as newspaper articles, photographs, and personal accounts. Understand that historical interpretations of environmental events may vary based on perspective, cultural context, and available evidence. Engage in discussions about different interpretations of historical figures and events related to sustainability,	compositions. Learn to repurpose and combine different materials to create visually impactful artworks. **Digital Art:** Use digital tools to create artwork that promotes sustainability and environmental awareness. Explore digital painting, illustration, and animation techniques to depict nature and ecological themes. Reflect on the environmental impact of digital technologies and consider ways to minimise it.	communities. Discuss the importance of fairness and equality in environmental decision-making and enforcement. **Health and Wellbeing:** **Environmental Health:** Recognize the connection between a healthy environment and personal health. Identify ways in which environmental factors such as pollution can impact health. Explore strategies for promoting a clean and safe environment for everyone.

stewardship. **Climate Change:** Discuss narratives that address the impacts of climate change on the planet and inspire action to mitigate its effects.	of a woman who transforms plastic bags into beautiful purses. **"The Great Kapok Tree: A Tale of the Amazon Rainforest" by Lynne Cherry** Through captivating illustrations and storytelling, this book explores the interconnectedness of the rainforest ecosystem and the importance of conservation. **"The Water Princess" by Susan Verde** This book follows the journey of a	including topics such as deforestation, pollution, and climate change, and discuss sustainable solutions. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities, such as mapping local green spaces or conducting surveys about recycling habits in the community.	impact. **Technical Knowledge:** Gain basic technical knowledge related to sustainability, such as understanding how renewable energy sources like solar panels or wind turbines work, or how recycling processes function.	fostering critical thinking and empathy towards differing viewpoints**.** **.**	**Music:** **Singing:** Sing songs with lyrics that promote environmental stewardship and sustainability. Learn songs that celebrate the beauty of nature and advocate for its protection. Participate in group singing activities that foster a sense of community and shared responsibility for the environment. **Playing Instruments:** Learn to play musical instruments that produce sounds reminiscent of nature, such as	**Physical and Mental Wellbeing:** Understand the benefits of spending time in nature for physical and mental health. Practice mindfulness and relaxation techniques inspired by nature. Develop an appreciation for the natural world as a source of well-being and inspiration. **Financial Literacy:** **Resource Management:** Understand the concept of finite resources and the need for sustainable resource

	young girl who dreams of bringing clean water to her village, highlighting issues of water scarcity and the importance of conservation.				flutes or drums. Explore percussion instruments made from recycled materials to create eco-friendly music. Experiment with different instruments to compose environmentally themed melodies and rhythms. **Listening and Appraising:** Listen to music inspired by nature and environmental themes, and discuss the emotions and messages conveyed. Appreciate the role of music in	management. Explore the value of saving resources such as water, energy, and materials. Learn basic principles of budgeting and making environmentally conscious consumer choices. **Cost of Environmental Impact:** Recognize that environmental degradation can have economic consequences. Understand the concept of "externalities" and how environmental costs may not be reflected in market

					raising awareness about sustainability and environmental issues. Learn to critically evaluate music that promotes environmental stewardship and its impact on listeners. **Composing:** Compose music that reflects themes of sustainability, conservation, and the natural world. Experiment with different musical elements such as melody, harmony, and rhythm to evoke feelings of connection to nature. Collaborate with peers to create	prices. Explore ways in which individuals and communities can reduce their environmental impact while saving money.

					original compositions inspired by environmental themes. **Performing:** Perform musical pieces that advocate for environmental stewardship and sustainability. Participate in ensemble performances that highlight the importance of collective action in protecting the environment. Share musical performances with peers and the community to raise awareness about sustainability issues.	

Environmental Awareness **(SUS2)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Comprehension:** Develop comprehension skills by reading sustainability-themed picture books, such as "The Earth Book" by Todd Parr or "Here We Are: Notes for Living on Planet Earth" by Oliver Jeffers, and discussing the environmental	**Number and Place Value:** **Counting Environmental Objects:** Count and represent quantities of environmental objects, such as trees, animals, or recyclable materials, to develop awareness of their importance	**Working Scientifically:** **Observation Skills:** Develop observational skills by exploring local environments and identifying environmental features, such as different types of plants and animals.	**Computer Science:** **Coding:** Understand how coding can be used to create digital simulations and games that teach about environmental concepts, such as ecosystems, pollution, or renewable	**Environmental Awareness - History:** **Changes within Living Memory:** Recognize and discuss changes in the environment and natural surroundings within their own lifetime and that of their family members.	**Drawing:** Recognize elements of the natural world through drawing, such as plants, animals, and landscapes. Use drawing as a tool to observe and document environmental features and changes in the local environment. Develop basic drawing skills to depict environmental	**Personal, Social, Health and Economic Education (PSHE):** **Environmental Awareness:** Recognize the importance of the environment for personal well-being and the well-being of others. Understand basic concepts related to the environment such as habitats, ecosystems, and

messages. **Identifying Themes:** Identify and discuss environmental awareness themes in literature, such as pollution, conservation, and the importance of biodiversity, through guided reading activities. **Understanding Cause and Effect:** Explore cause-and-effect relationships in environmental narratives, such as how human activities impact ecosystems and the consequences of pollution on wildlife and habitats.	and conservation. **Addition and Subtraction:** **Calculating Environmental Impacts:** Use addition and subtraction to calculate environmental impacts, such as carbon emissions, waste production, or water usage, fostering an understanding of the consequences of human activities on the environment. **Multiplication and Division:** **Environmental**	**Investigation:** Conduct simple investigations to explore environmental changes, such as observing how seasonal changes affect plant growth or animal behaviour. **Data Recording:** Practice recording data related to environmental observations, such as keeping a nature journal or creating charts to track changes in weather patterns. **Science:** **Plants:**	energy. **Algorithms:** Explore algorithms in the context of environmental challenges, such as developing algorithms to sort waste or to model natural processes like photosynthesis. **Computational Thinking:** Apply computational thinking skills to environmental scenarios, such as identifying cause-and-effect relationships in ecosystems or analysing data related to	Identify environmental changes such as changes in weather patterns, seasons, or the presence of wildlife. Understand the importance of taking care of the environment through small everyday actions. **Events beyond Living Memory:** Explore significant historical events that have had lasting impacts on the environment, such as industrializatio	concepts and messages. **Painting:** Explore colours, textures, and patterns found in nature through painting. Create paintings that depict environmental scenes, such as forests, oceans, or mountains. Experiment with different painting techniques to represent elements of the environment, such as watercolour washes for rivers or textured brush strokes for trees. **Sculpture:**	biodiversity. Identify simple actions that promote environmental sustainability in daily life. **Empathy and Respect for Nature:** Develop empathy towards living beings and the natural world. Understand the interconnectedness between humans, animals, plants, and the environment. Show respect for nature through caring actions and responsible behaviours. **Cooperation for Environmental Conservation:**

Writing: **Creative Writing:** Encourage creative expression by writing stories, poems, or journal entries inspired by environmental themes, allowing students to imagine solutions to environmental challenges. **Descriptive Writing:** Develop descriptive writing skills by describing natural landscapes, environmental issues, or the beauty of nature, using sensory language to evoke emotions and awareness. **Reflective Writing:**	**Resource Allocation:** Apply multiplication and division to solve problems related to environmental resource allocation and distribution, encouraging critical thinking about sustainable resource management. **Fractions:** **Fractional Parts of Environmental Resources:** Understand fractions by representing fractional parts of environmental resources, such as fractions of a	Understand the role of plants in the environment, including their importance in providing oxygen, food, and habitats for animals. **Animals, including humans:** Explore the diversity of animals and their habitats, discussing how human actions can impact animal populations and ecosystems. **Everyday Materials:** Identify common everyday materials and	climate change. **Information Technology:** **Using Software:** Use educational software and interactive tools to explore environmental topics, such as virtual field trips to natural habitats or interactive maps showing environmental data. **Internet Safety:** Learn about internet safety guidelines when researching environmental issues online, including	n, deforestation, or the extinction of species. Understand how past events have shaped the environment they live in today and may influence future environmental challenges. Develop an awareness of the interconnectedness of human history and the natural world. **Significant Historical Figures and Events and Sustainability and Environmentalists:**	Use sculpture to explore the shapes and forms of natural objects, such as leaves, shells, and rocks. Create sculptures inspired by environmental themes, such as animals affected by pollution or endangered habitats. Experiment with different sculptural materials and techniques to represent elements of the environment, such as modelling clay for animals or found objects for landscapes. **Printing:** Explore printing techniques to create artwork	Engage in cooperative activities to protect and preserve the environment within the school and local community. Develop teamwork skills while working towards common environmental goals. Understand the importance of collaboration in addressing environmental challenges. **Citizenship:** **Understanding Rights and Responsibilities:** Understand the right to live in a clean and healthy environment

Promote reflective writing by asking students to reflect on their personal connections to nature, environmental concerns, and ways they can contribute to positive change. **Speaking and Listening:** **Discussion:** Engage in group discussions about environmental topics introduced in picture books, encouraging students to share their thoughts, ask questions, and consider different viewpoints. **Oral Presentations:**	forest area or a water body, promoting awareness of resource conservation and sustainability. **Measurement:** **Measuring Environmental Data:** Use measurement skills to collect and analyse environmental data, such as temperature, rainfall, or air quality, enabling students to understand environmental conditions and trends. **Geometry:**	discuss their environmental impact, such as plastic pollution in oceans or the use of renewable resources. **Seasonal Changes:** Observe and record seasonal changes in the local environment, discussing how these changes affect plants, animals, and habitats. **Living Things and their Habitats:** Investigate different habitats and the living things that inhabit them, discussing the importance of	understanding how to verify information and protect personal data. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used for environmental monitoring and conservation, such as weather sensors, wildlife cameras, or GPS trackers, and understand their functions. **Design and Technology:** **Designing:** Design digital or physical	Learn about historical figures who have played important roles in environmental conservation and sustainability efforts, such as conservationists, environmental activists, or scientists. Understand the contributions of these individuals to raising awareness about environmental issues and advocating for conservation measures. Explore key	inspired by nature, such as leaf prints or animal silhouettes. Learn about patterns and textures found in the environment and use printing to replicate them in artwork. Experiment with sustainable printing methods and eco-friendly materials to minimise environmental impact. **Textiles:** Use textiles to create artwork that reflects environmental themes, such as fabric collages of habitats or embroidered	as a basic human right. Recognize personal and collective responsibilities in caring for the environment. Explore how individual actions can contribute to the common good and the well-being of future generations. **Learning about Democracy in Environmental Decision-Making:** Explore democratic processes related to environmental decision-making at local and national levels. Understand the importance of listening to diverse perspectives and

Prepare and deliver oral presentations on environmental awareness themes, such as presenting findings from research on endangered species or sharing ideas for eco-friendly practices. **Debates:** Conduct debates on environmental issues, allowing students to express their opinions, develop critical thinking skills, and explore different perspectives on topics like deforestation or renewable energy. **Environmental Awareness Picture**	**Geometric Shapes in Nature:** Identify and describe geometric shapes found in nature, such as the symmetry of leaves or the patterns of animal markings, connecting mathematical concepts with the natural world. **Statistics:** **Analysing Environmental Trends:** Collect and analyse data on environmental trends, such as deforestation rates or wildlife populations,	biodiversity and conservation. **Light and Sound:** Explore how light and sound pollution can affect the environment and discuss ways to reduce these forms of pollution. **Geography:** **Locational Knowledge:** Learn about the names and locations of countries, continents, and oceans, discussing how different regions may face unique environmental challenges.	products that promote environmental awareness and sustainability, such as creating eco-friendly packaging or designing a website to raise awareness about endangered species. **Making:** Engage in hands-on making activities to create prototypes or models of environmental solutions, using recycled materials or digital fabrication tools like 3D printers. **Evaluating:**	historical events related to environmental conservation, such as the establishment of national parks, the implementation of environmental policies, or environmental movements. **Historical Interpretation:** Develop skills in analysing historical sources related to environmental issues, such as photographs, primary documents, or oral histories. Understand	designs of endangered species. Experiment with different textile techniques, such as weaving, stitching, and appliqué, to represent elements of the environment. Learn about sustainable textile practices and consider the environmental impact of fabric production and waste. **Collage:** Create collages using found materials to represent environmental scenes or	reaching consensus on environmental issues. Recognize the role of citizens in participating in environmental decision-making and advocacy. **Understanding Environmental Laws and Justice:** Learn about environmental laws and regulations aimed at protecting nature and wildlife. Understand the concept of environmental justice and its importance in ensuring fair treatment for all communities. Discuss the role of law enforcement

Book Themes: **Pollution:** Explore stories about air and water pollution, plastic waste, and the importance of reducing, reusing, and recycling to protect the environment. **Conservation:** Discover books that highlight conservation efforts to protect endangered species, preserve natural habitats, and restore ecosystems. **Climate Change:** Read narratives that address the impacts of climate change on the planet, including rising temperatures, extreme weather	using statistical techniques to understand patterns and make informed decisions for environmental conservation. **Maths Picture Books to Support:** **"The Earth Book" by Todd Parr** This colourful book introduces environmental concepts such as recycling, conservation, and sustainability in a simple and engaging way, making it suitable for young learners. **"The Adventures of a Plastic Bottle: A Story About**	**Place Knowledge:** Develop an understanding of the local area and the UK, exploring geographical features and discussing how they can be protected and preserved. **Human and Physical Geography:** Investigate human impact on the environment, including topics such as deforestation, pollution, and climate change, and discuss ways to promote sustainability. **Geographical Skills and**	Evaluate the environmental impact of design choices and technological solutions, considering factors such as energy efficiency, material sustainability, and potential ecological footprint. **Technical Knowledge:** Gain basic technical knowledge related to environmental monitoring and conservation technologies, such as understanding how sensors	that historical interpretations of environmental events may vary based on perspective, bias, and available evidence. Engage in discussions about different interpretations of historical figures and events related to sustainability, fostering critical thinking and empathy towards differing viewpoints.	concepts. Explore themes of conservation and recycling through collage compositions. Learn to combine different textures, colours, and shapes to create visually interesting and environmentally themed artwork. **Digital Art:** Use digital tools to create artwork that raises awareness about environmental issues, such as pollution, deforestation, or climate change. Experiment with digital painting, illustration, and	and citizens in upholding environmental laws and holding polluters accountable. **Health and Wellbeing:** **Environmental Health Awareness:** Understand how environmental factors such as air quality and access to green spaces can affect health. Learn about the importance of clean water, nutritious food, and a safe environment for overall well-being. Identify ways to promote personal and community health through environmental

events, and melting ice caps. **Sustainable Living:** Discuss books that promote sustainable practices such as energy conservation, water conservation, sustainable agriculture, and reducing carbon footprint. **Biodiversity:** Learn about the importance of biodiversity and the interconnectedness of living organisms in ecosystems through stories about habitats, food chains, and endangered species.	**Recycling" by Alison Inches** Through the journey of a plastic bottle, this book explores the importance of recycling and reducing waste, providing a concrete example of how mathematical concepts can be applied to environmental issues. **"If You Hopped Like a Frog" by David M. Schwartz** Using fun and interactive comparisons, this book introduces measurement concepts while exploring the	**Fieldwork:** Develop geographical skills through fieldwork activities, such as mapping local habitats or conducting surveys about environmental concerns in the community.	collect environmental data or how to interpret digital maps showing ecological features.		animation techniques to depict elements of the environment. Reflect on the role of digital technology in shaping perceptions of the environment and promoting environmental awareness. **Music:** **Singing:** Sing songs that celebrate the beauty of nature and raise awareness about environmental issues. Learn lyrics that convey messages of environmental stewardship and conservation. Participate in	stewardship. **Physical and Mental Wellbeing in Nature:** Explore the benefits of spending time in nature for physical and mental health. Practice mindfulness and relaxation techniques inspired by the natural world. Develop an appreciation for the beauty and tranquillity of nature as a source of well-being. **Financial Literacy:** **Understanding Resource Management:** Learn about the

	abilities of various animals, fostering curiosity about the natural world and its conservation.				group singing activities that foster a sense of connection to the natural world. **Playing Instruments:** Learn to play musical instruments that mimic sounds found in nature, such as bird whistles or rain sticks. Explore percussion instruments made from recycled materials to create eco-friendly rhythms. Experiment with different instruments to create music inspired by environmental	finite nature of resources and the importance of sustainable resource management. Explore the value of conserving resources such as water, energy, and materials. Understand basic principles of budgeting and making environmentally conscious consumer choices. **Awareness of Environmental Costs:** Recognize that environmental degradation can have economic implications. Understand the

					themes and landscapes. **Listening and Appraising:** Listen to music inspired by nature and environmental themes, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about environmental issues and promoting conservation efforts. Learn to critically evaluate music that promotes environmental stewardship and its impact on	concept of externalities and how environmental costs may not be reflected in market prices. Explore ways in which individuals and communities can reduce their environmental impact while saving money.

					listeners. **Composing:** Compose music that reflects environmental themes, such as pieces inspired by the sounds of nature or the rhythms of the seasons. Experiment with different musical elements to evoke feelings of connection to the environment, such as using melodic patterns inspired by bird songs or rhythmic motifs inspired by natural phenomena. Collaborate with peers to create original compositions that raise awareness	

					about environmental issues and inspire action. **Performing:** Perform musical pieces that celebrate the beauty of the natural world and advocate for environmental conservation. Participate in ensemble performances that highlight the importance of protecting the environment and preserving natural habitats. Share musical performances with peers and the community to raise awareness about	

					environmental issues and promote sustainability.	
Environmental Stewardship **(SUS3)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Comprehension: Develop comprehension skills by reading sustainability-themed picture books, such as "The Great Kapok Tree" by Lynne Cherry or "The Giving Tree" by Shel Silverstein, and discussing the	**Number and Place Value:** **Counting Conservation Efforts:** Count and represent the number of environmental actions taken,	**Working Scientifically:** **Observation Skills:** Develop observational skills by identifying environmental features and	**Computer Science:** **Coding:** Understand how coding can be used to develop applications and games that promote environmental	**Environmental Stewardship - History:** **Changes within Living Memory:** Recognise and discuss changes in the local environment	**Art and Design:** **Drawing:** Use drawing to observe and depict elements of the natural environment, such as plants, animals, and landscapes.	**Personal, Social, Health and Economic Education (PSHE):** **Environmental Awareness:** Recognize the importance of caring for the environment for personal well-being and the

concepts of environmental stewardship. **Identifying Themes:** Identify and discuss themes of environmental stewardship, conservation, and responsibility in literature, encouraging students to recognise their role in caring for the planet. **Understanding Responsibility:** Explore stories that emphasise individual and collective responsibility towards the environment, fostering empathy and a sense of	such as planting trees or recycling bins installed, to develop awareness of collective efforts towards environmental stewardship. **Addition and Subtraction:** **Calculating Conservation Impact:** Use addition and subtraction to calculate the impact of conservation actions, such as the reduction in carbon emissions or the increase in recycled materials, fostering an understanding of the positive effects of	changes, such as observing plant growth or animal behaviour in local habitats. **Investigation:** Conduct investigations to explore ways to protect and conserve the environment, such as investigating the effects of recycling on reducing waste. **Data Recording:** Practice recording and analysing data related to environmental stewardship, such as tracking changes in pollution levels or	stewardship, such as recycling games or energy-saving simulations. **Algorithms:** Explore algorithms that optimise resource use and promote sustainability, such as algorithms for route optimization to reduce fuel consumption or for smart energy management. **Computational Thinking:** Apply computational thinking to environmental challenges, such as decomposing	within their own lifetime and that of their family members, such as changes in wildlife populations, weather patterns, or the appearance of pollution. Understand the impact of human activities on the environment and how individual actions can contribute to positive change. Identify examples of environmental stewardship practised within their community,	Develop skills in accurately representing details of natural forms through observation and practice. Explore drawing techniques that convey messages of environmental stewardship and conservation. **Painting:** Create paintings that depict scenes of environmental beauty and highlight the importance of protecting natural habitats. Experiment with using colours and textures to evoke emotions and connections to nature in	well-being of others. Understand basic environmental concepts such as conservation, recycling, and pollution. Identify simple actions that contribute to environmental stewardship in daily life. **Empathy and Respect for Nature:** Develop empathy towards living beings and the natural world. Understand the importance of respecting nature and the interconnectedness of all living things.

stewardship among students. **Writing:** **Reflective Writing:** Encourage reflective writing by asking students to journal about their personal connection to nature, their observations of the environment, and ways they can contribute to environmental stewardship. **Persuasive Writing:** Practise persuasive writing skills by composing letters or essays advocating for environmental protection, promoting sustainable practices, or raising awareness about	environmental stewardship. **Multiplication and Division:** **Dividing Resources Equitably:** Apply multiplication and division to distribute resources for environmental projects equitably among different groups or areas, promoting fairness and inclusivity in environmental stewardship efforts. **Fractions:** **Sharing Resources Proportionally:**	monitoring wildlife populations. **Science:** **Plants:** Understand the importance of plants in maintaining healthy ecosystems and explore ways to care for and protect plant species in local habitats. **Animals, including humans:** Investigate the impact of human activities on animal habitats and discuss ways to promote coexistence and	complex environmental problems into smaller, manageable tasks and identifying patterns in environmental data. **Information Technology:** **Using Software:** Utilise software tools to explore environmental issues and solutions, such as using GIS (Geographic Information Systems) software to analyse environmental data or creating digital presentations on	such as recycling programs or community clean-up efforts. **Events beyond Living Memory:** Explore significant historical events that have shaped the environment, such as the Industrial Revolution, the invention of fossil fuel-powered machinery, or large-scale deforestation. Understand how past events have contributed to current	paintings. Learn about artists who use painting as a medium to advocate for environmental stewardship and sustainability. **Sculpture:** Use sculpture to represent elements of the environment, such as animals, plants, and ecological systems. Explore sculptural techniques and materials that reflect principles of sustainability, such as using recycled or natural materials. Create sculptures that raise awareness about	Demonstrate care and responsibility towards the environment through actions and behaviours. **Collaboration for Environmental Conservation:** Engage in collaborative activities to protect and preserve the environment within the school and local community. Develop teamwork skills while working towards common environmental goals. Understand the importance of cooperation in addressing environmental challenges.

conservation issues. **Creative Writing:** Foster creativity through storytelling, allowing students to imagine and write narratives that highlight the importance of environmental stewardship and the impact of human actions on nature. **Speaking and Listening:** **Discussion:** Engage in group discussions about environmental stewardship topics introduced in picture books, encouraging students to share their thoughts, express concerns, and brainstorm	Understand fractions by dividing resources, such as land or funds, proportionally among various conservation projects or initiatives, encouraging responsible resource allocation in environmental stewardship. **Measurement:** **Measuring Conservation Impact:** Use measurement skills to quantify the impact of conservation efforts, such as measuring the	protect wildlife. **Everyday Materials:** Explore sustainable practices related to everyday materials, such as reducing, reusing, and recycling to minimise environmental impact. **Seasonal Changes:** Observe and discuss seasonal changes in the environment, exploring how these changes affect ecosystems and ways to support biodiversity.	conservation efforts. **Internet Safety:** Learn about internet safety practices when researching environmental topics online, including identifying reliable sources of information and understanding the importance of privacy and security. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used for environmental monitoring and conservation, such as weather	environmental challenges and the importance of learning from historical mistakes. Develop empathy towards past and present environmental issues and recognise the need for responsible stewardship of natural resources. **Significant Historical Figures and Events and Sustainability Activists and Environmentalists:** Learn about historical figures who	environmental issues and inspire action towards conservation. **Printing:** Use printing techniques to create artwork that communicates messages of environmental stewardship. Experiment with sustainable printing methods and eco-friendly inks to minimise environmental impact. Create prints that celebrate the beauty of nature and promote the importance of preserving natural resources. **Textiles:**	**Citizenship:** **Understanding Rights and Responsibilities:** Understand the right to a clean and healthy environment as a basic human right. Recognize personal and collective responsibilities in caring for the environment. Explore how individual actions can contribute to the common good and the well-being of future generations. **Democracy in Environmental Decision-Making:** Learn about democratic

solutions. **Debates:** Conduct debates on environmental issues, encouraging students to explore different viewpoints, weigh evidence, and develop critical thinking skills while discussing topics like deforestation, wildlife conservation, or sustainable living. **Role-Playing:** Role-play scenarios that illustrate acts of environmental stewardship, such as taking care of local parks, participating in community clean-up events, or implementing recycling programs. **Environmental**	area of restored habitat or the volume of water saved through conservation measures, fostering accountability and evaluation in environmental stewardship. **Geometry:** **Designing Sustainable Spaces:** Identify and use geometric shapes and patterns to design sustainable spaces, such as eco-friendly buildings or wildlife-friendly gardens, promoting	**Living Things and their Habitats:** Learn about different habitats and the living things that depend on them, discussing strategies for habitat conservation and restoration. **Light and Sound:** Explore the effects of light and sound pollution on the environment and discuss actions that can be taken to reduce pollution and protect natural habitats.	stations, air quality sensors, or wildlife tracking devices, and understand their role in environmental stewardship. **Design and Technology:** **Designing:** Design digital or physical solutions that promote environmental stewardship, such as designing eco-friendly packaging or creating digital campaigns to raise awareness about conservation efforts. **Making:**	have played important roles in environmental conservation and sustainability efforts, such as Jane Goodall, Jacque Cousteau, , David Attenborough,John Muir, or David Suzuki. Understand the contributions of these individuals to raising awareness about environmental issues and advocating for sustainable practices. Explore key historical events related to	Create textile artworks that explore themes of environmental stewardship and sustainability. Experiment with textile techniques such as weaving, stitching, and dyeing to represent elements of the natural world. Learn about sustainable textile practices and consider the environmental impact of fabric production and consumption. **Collage:** Use collage to create artworks that raise	processes related to environmental decision-making at local and national levels. Understand the importance of listening to diverse perspectives and reaching consensus on environmental issues. Recognize the role of citizens in participating in environmental decision-making and advocating for sustainable practices. **Law, Justice, and Environmental Protection:** Explore environmental laws and regulations aimed at protecting

Stewardship Picture Book Themes: **Conservation:** Explore stories that emphasise the importance of protecting natural habitats, preserving biodiversity, and conserving resources for future generations. **Community Engagement:** Read narratives that highlight community efforts to promote environmental stewardship, such as community gardens, tree planting initiatives, or wildlife conservation projects. **Sustainable Practices:**	creativity and innovation in environmental stewardship practices. **Statistics:** **Analysing Conservation Data:** Collect and analyse statistical data on conservation efforts, such as monitoring wildlife populations or tracking waste reduction rates, to evaluate progress and inform future environmental stewardship strategies. **Maths Picture Books to**	**Geography:** **Locational Knowledge:** Identify and locate countries, continents, and oceans, discussing global environmental challenges and exploring ways to address them. **Place Knowledge:** Develop an understanding of the local area and the UK, discussing environmental issues affecting the community and ways to take action. **Human and Physical**	Engage in hands-on making activities to create prototypes or models of sustainable products or solutions, using recycled materials or sustainable manufacturing techniques. **Evaluating:** Evaluate the environmental impact of design choices and technological solutions, considering factors such as energy efficiency, material sustainability, and long-term	environmental conservation, such as the establishment of national parks, the signing of environmental treaties, or the founding of environmental organisations. **Historical Interpretation:** Develop skills in analysing historical sources related to environmental issues, such as photographs, newspaper articles, or personal accounts. Understand that historical interpretations	awareness about environmental issues and promote stewardship of the environment. Experiment with combining different materials and textures to represent natural forms and landscapes. Create collages that inspire viewers to take action towards protecting the environment and conserving natural resources. **Digital Art:** Use digital tools to create artwork that communicates messages of environmental	nature and wildlife. Understand the concept of environmental justice and its importance in ensuring fair treatment for all communities. Discuss the role of law enforcement and citizens in upholding environmental laws and holding polluters accountable. **Health and Wellbeing:** **Environmental Health Awareness:** Understand how environmental factors such as air and water quality can impact health.

Discuss books that introduce sustainable practices like recycling, composting, energy conservation, and reducing waste, empowering students to adopt eco-friendly habits. **Responsibility:** Learn about individual and collective responsibility towards the environment, including the impact of daily actions on ecosystems and the importance of making environmentally conscious choices.	**Support:** **"The Lorax" by Dr. Seuss** This classic tale explores themes of environmental conservation and stewardship through engaging storytelling and whimsical illustrations, making it an excellent resource for introducing mathematical concepts in the context of environmental responsibility. **"One Plastic Bag: Isatou Ceesay and the Recycling Women of the Gambia" by Miranda Paul**	**Geography:** Investigate human impact on the environment, including topics such as deforestation, pollution, and climate change, and explore solutions for sustainable living. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on environmental stewardship, such as conducting litter cleanups or planting native species to enhance	ecological consequences. **Technical Knowledge:** Gain technical knowledge related to environmental technologies, such as understanding how sensors work to monitor environmental parameters or how renewable energy systems are designed and implemented.	of environmental events may vary based on perspective, bias, and available evidence. Engage in discussions about different interpretations of historical figures and events related to environmental stewardship, fostering critical thinking and empathy towards differing viewpoints.	stewardship and conservation. Experiment with digital painting, illustration, and animation techniques to depict natural forms and ecosystems. Reflect on the role of digital technology in advocating for environmental awareness and sustainability. **Music:** **Singing:** Sing songs that celebrate the beauty of the natural world and advocate for environmental stewardship.	Learn about the importance of access to clean water, fresh air, and green spaces for overall well-being. Identify ways to promote personal and community health through environmental stewardship. **Physical and Mental Wellbeing in Nature:** Explore the benefits of spending time in nature for physical and mental health. Practice mindfulness and relaxation techniques inspired by the natural world. Develop an appreciation for the beauty and

	Based on a true story, this book follows the journey of a woman who leads her community in recycling plastic bags to create beautiful products, highlighting the power of collective action and mathematics in environmental stewardship. **"The Great Kapok Tree: A Tale of the Amazon Rain Forest" by Lynne Cherry** Through vibrant illustrations and a compelling narrative, this book raises	biodiversity.			Learn lyrics that convey messages of conservation and sustainability. Participate in group singing activities that foster a sense of connection to the environment and inspire action towards stewardship. **Playing Instruments:** Learn to play musical instruments that evoke sounds found in nature, such as bird calls or flowing water. Explore percussion instruments made from recycled materials to create eco-friendly	tranquillity of nature as a source of well-being. **Financial Literacy:** **Resource Management and Sustainability:** Learn about the finite nature of resources and the importance of sustainable resource management. Explore the value of conserving resources such as water, energy, and materials. Understand basic principles of budgeting and making environmentally conscious consumer choices.

	awareness about rainforest conservation and the interconnectedness of ecosystems, providing opportunities to integrate maths into discussions about environmental stewardship.				rhythms. Experiment with different instruments to create music that raises awareness about environmental issues and encourages stewardship of the environment. **Listening and Appraising:** Listen to music inspired by nature and environmental themes, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about environmental issues and	**Understanding Environmental Costs and Savings:** Recognize that environmental degradation can have economic implications. Understand the concept of externalities and how environmental costs may impact individuals and communities. Explore ways in which sustainable practices can lead to cost savings and long-term economic benefits.

					promoting conservation efforts. Learn to critically evaluate music that advocates for environmental stewardship and its impact on listeners. **Composing:** Compose music that reflects themes of environmental stewardship and conservation. Experiment with different musical elements to evoke feelings of connection to nature and inspire action towards environmental protection. Collaborate with	

					peers to create original compositions that raise awareness about environmental issues and promote stewardship of the environment. **Performing:** Perform musical pieces that celebrate the beauty of the natural world and advocate for environmental stewardship. Participate in ensemble performances that highlight the importance of protecting the environment and preserving natural habitats.	

					Share musical performances with peers and the community to raise awareness about environmental issues and inspire action towards stewardship.	
Waste Management **(SUS4)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Comprehension:** Develop comprehension skills	**Number and Place Value:** **Counting Waste Items:**	**Working Scientifically:** **Observation Skills:** Develop	**Computer Science:** **Coding:** Understand how	**Waste Management - History:** **Changes within Living Memory:**	**Art and Design:** **Drawing:** Use drawing to illustrate the concept of waste management by	**Personal, Social, Health and Economic Education (PSHE):** **Waste Awareness:** Recognize different types of waste

by reading sustainability-themed picture books that explore waste management topics, such as "Michael Recycle" by Ellie Bethel or "One Plastic Bag: Isatou Ceesay and the Recycling Women of the Gambia" by Miranda Paul. **Identifying Themes:** Identify and discuss themes related to waste management, recycling, reducing waste, and reusing materials in literature, encouraging students to understand the importance of responsible consumption. **Understanding**	Count and represent the number of waste items, such as plastic bottles or paper bags, to develop an understanding of the quantity of waste generated and the importance of waste management. **Addition and Subtraction:** **Calculating Recycling Rates:** Use addition and subtraction to calculate recycling rates, such as determining the amount of waste recycled versus sent to landfill, fostering	observational skills by identifying different types of waste in the local environment, such as litter or recycling bins. **Investigation:** Conduct investigations to explore waste generation and disposal practices, such as investigating how waste is sorted and recycled. **Data Recording:** Practice recording and analysing data related to waste management, such as keeping track of the amount of waste	coding can be used to develop applications or games that educate about waste management practices, such as sorting recyclables or reducing waste through composting. **Algorithms:** Explore algorithms for optimising waste collection routes or for sorting waste materials efficiently, promoting proper waste management practices. **Computational Thinking:**	Recognise and discuss changes in waste generation and disposal practices within their own lifetime and that of their family members, such as the introduction of recycling programs or the reduction of single-use plastics. Understand the impact of improper waste disposal on the environment and the importance of adopting sustainable waste management	depicting scenes of recycling, composting, and waste reduction. Create drawings that showcase the importance of sorting waste into different categories, such as recyclables, compostables, and landfill waste. Explore drawing techniques that convey messages of environmental responsibility and sustainable waste practices. **Painting:** Create paintings that highlight the impact of waste on the environment and the importance of proper waste	produced in daily life, such as paper, plastic, and food waste. Understand the impact of waste on the environment and personal well-being. Identify simple actions to reduce, reuse, and recycle waste at home and school. **Responsibility for Waste Management:** Develop a sense of responsibility for managing waste properly. Understand the importance of disposing of waste in designated bins and recycling facilities.

Solutions: Explore stories that present solutions to waste management challenges, fostering critical thinking about how individuals and communities can address waste issues effectively. **Writing:** **Persuasive Writing:** Practise persuasive writing skills by composing letters, posters, or persuasive essays advocating for responsible waste management practices, such as recycling, composting, and reducing single-use plastics. **Creative Writing:**	awareness of the impact of recycling efforts on waste management. **Multiplication and Division:** **Dividing Waste Equally:** Apply multiplication and division to divide waste equally among recycling bins or containers, promoting fair distribution and organisation in waste management practices. **Fractions:** **Sorting Waste by Fraction:**	generated in the classroom or school. **Science:** **Plants:** Explore the impact of waste on plant habitats and discuss ways to reduce waste to protect plant species and ecosystems. **Animals, including humans:** Investigate the effects of waste on animal habitats and discuss how waste pollution can harm wildlife and ecosystems. **Everyday**	Apply computational thinking to waste management scenarios, such as identifying patterns in waste generation or developing solutions to reduce waste in the community. **Information Technology:** **Using Software:** Utilise software tools to track and analyse waste data, such as using spreadsheets to record waste amounts or using databases to monitor recycling rates. **Internet Safety:**	practices. Identify examples of waste reduction and recycling initiatives implemented within their community. **Events beyond Living Memory:** Explore historical events that have influenced waste management practices, such as the rise of consumer culture, the invention of plastic, or the development of landfill	management. Experiment with using colours and textures to represent different types of waste and their effects on ecosystems. Learn about artists who use painting as a medium to advocate for waste reduction and recycling. **Sculpture:** Use sculpture to represent the concept of waste management through the creation of artworks made from recycled materials. Create sculptures that raise awareness about the importance of	Practice habits that minimise waste generation and promote environmental sustainability. **Cooperation in Waste Reduction:** Engage in collaborative activities to reduce waste within the school and local community. Work together to implement waste reduction strategies, such as organising litter clean-up events or composting initiatives. Understand the importance of teamwork in achieving common goals related to

Encourage creativity through storytelling, allowing students to imagine and write narratives that promote waste reduction, reuse, and recycling, and highlight the impact of waste on the environment. **Procedural Writing:** Introduce procedural writing by guiding students to write step-by-step instructions for sorting recyclables, creating compost bins, or reducing household waste, emphasising clear and concise communication. **Speaking and Listening:**	Understand fractions by sorting waste items into categories based on fractions (e.g., one-third recyclable materials, two-thirds non-recyclable materials), fostering an understanding of the composition of waste and the importance of recycling. **Measurement:** **Measuring Waste Volume:** Use measurement skills to quantify the volume of waste generated, such as	**Materials:** Identify common materials that can be recycled or reused, discussing the importance of reducing waste and conserving resources. **Seasonal Changes:** Discuss seasonal changes in waste generation, such as increased packaging waste during holidays, and explore strategies for reducing waste during these times. **Living Things and their Habitats:**	Learn about internet safety when researching waste management information online, including verifying sources and understanding the importance of privacy and security. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used in waste management, such as sensors for monitoring waste levels in bins or RFID tags for tracking waste	technology. Understand how past events have contributed to current waste management challenges and the need for innovative solutions. Develop an awareness of the long-term consequences of unsustainable waste practices on the environment and society. **Significant Historical Figures and Events and Sustainability Activists and Environmenta**	reducing, reusing, and recycling waste. Experiment with sculptural techniques and materials that reflect principles of sustainability and environmental stewardship. **Printing:** Use printing techniques to create artwork that communicates messages of waste management and recycling. Create prints that depict scenes of waste reduction practices, such as composting food scraps or using reusable	waste management. **Citizenship:** **Understanding Rights and Responsibilities:** Recognize the right to live in a clean and healthy environment. Understand personal and collective responsibilities in managing waste and protecting the environment. Explore how individual actions can contribute to sustainable waste management practices. **Democracy in Waste Decision-Making:**

Discussion: Engage in group discussions about waste management topics introduced in picture books, encouraging students to share their ideas, concerns, and experiences related to waste reduction and recycling. **Debates:** Conduct debates on waste management issues, allowing students to explore different viewpoints, debate the pros and cons of recycling programs, and discuss strategies for reducing waste in their community. **Role-Playing:**	measuring the size of waste bins or containers, to understand the scale of waste management efforts and the capacity needed for disposal. **Geometry:** **Designing Waste Containers:** Identify and use geometric shapes and patterns to design waste containers or bins that optimise space and efficiency, promoting creative solutions in waste management infrastructure.	Learn about the impact of waste on different habitats and the living things that depend on them, discussing solutions for minimising waste pollution. **Light and Sound:** Explore how waste management practices, such as landfill sites or recycling facilities, can impact the environment in terms of light and sound pollution. **Geography:** **Locational Knowledge:**	containers, and understand their role in waste management systems. **Design and Technology:** **Designing:** Design solutions for waste reduction or recycling, such as designing eco-friendly packaging or creating posters and educational materials to promote waste awareness. **Making:** Engage in hands-on making activities to create prototypes or	**lists:** Learn about historical figures who have advocated for sustainable waste management practices, such as Bea Johnson, Wangari Maathai, or Isatou Ceesay. Understand the contributions of these individuals to raising awareness about the environmental impacts of waste and promoting waste reduction strategies.	containers. Experiment with sustainable printing methods and eco-friendly inks to minimise environmental impact. **Textiles:** Create textile artworks that raise awareness about waste management through the use of recycled fabrics and materials. Experiment with textile techniques such as patchwork, quilting, and appliqué to represent waste reduction and recycling practices.	Learn about democratic processes related to waste management and recycling programs. Understand the importance of citizen participation in decision-making about waste policies and practices. Recognize the role of individuals in advocating for improved waste management infrastructure and policies. **Law, Justice, and Waste Regulation:** Explore laws and regulations related to waste management and

Role-play scenarios that involve waste management practices, such as sorting recyclables, organising a community clean-up, or educating others about the importance of reducing waste. **Waste Management Picture Book Themes:** **Recycling:** Explore stories that highlight the importance of recycling materials such as paper, plastic, glass, and metal, and the positive impact of recycling on the environment. **Reduce and Reuse:** Discuss books that emphasise the concepts of reducing consumption,	**Statistics:** **Analysing Waste Data:** Collect and analyse statistical data on waste generation and disposal, such as tracking trends over time or comparing waste rates between different areas, to inform waste management strategies and decision-making. **Maths Picture Books to Support:** **"Michael Recycle" by Ellie Bethel** This engaging story follows the	Identify countries, continents, and oceans where waste management practices may vary, discussing global efforts to reduce waste and promote recycling. **Place Knowledge:** Develop an understanding of waste management facilities and practices in the local area and the UK, discussing ways to reduce waste and improve recycling rates. **Human and Physical**	models of waste management systems, such as building a model recycling centre or designing a sorting game to teach about recycling. **Evaluating:** Evaluate the effectiveness of waste management solutions, considering factors such as ease of use, efficiency, and environmental impact. **Technical Knowledge:** Gain technical knowledge related to waste	Explore key historical events related to waste management, such as the invention of recycling processes, the implementation of waste regulations, or the founding of environmental organisations focused on waste issues. **Historical Interpretation:** Develop skills in analysing historical sources related to waste management, such as archival photographs, government reports, or public	Learn about sustainable textile practices and consider the environmental impact of textile production and consumption. **Collage:** Use collage to create artworks that advocate for waste management by incorporating images of recycling symbols, waste bins, and eco-friendly practices. Experiment with combining different materials and textures to create visually impactful collages that highlight the importance of	recycling. Understand the consequences of illegal dumping and littering on the environment and communities. Discuss the role of law enforcement and citizens in upholding waste management laws and promoting environmental justice. **Health and Wellbeing:** **Environmental Health and Hygiene:** Understand how proper waste management contributes to a clean and healthy environment.

reusing items, and finding creative ways to repurpose materials to minimise waste generation. **Composting:** Learn about composting and organic waste management through narratives that showcase the benefits of composting for soil health, reducing methane emissions, and closing the nutrient loop.	adventures of Michael Recycle, a superhero who teaches children about the importance of recycling and waste management through colourful illustrations and fun rhymes. **"Compost Stew: An A to Z Recipe for the Earth" by Mary McKenna Siddals** Through playful illustrations and an alphabetical format, this book introduces children to the concept of composting and organic waste management, providing opportunities to	**Geography:** Investigate human impact on the environment through waste generation and disposal, discussing the environmental and social implications of different waste management strategies. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on waste management, such as conducting waste audits or visiting recycling centres	management technologies, such as understanding how waste sorting machines work or how waste-to-energy processes function.	campaigns. Understand that historical interpretations of waste management practices may vary based on cultural, economic, and social factors. Engage in discussions about different interpretations of historical figures and events related to waste management, fostering critical thinking and empathy towards differing viewpoints.	reducing waste. Create collages that inspire viewers to take action towards responsible waste management and environmental stewardship. **Digital Art:** Use digital tools to create artwork that communicates messages of waste management and the importance of recycling. Experiment with digital painting, illustration, and animation techniques to depict waste-related themes, such as landfill sites or	Learn about the risks of pollution and contamination associated with improper waste disposal. Practise good hygiene habits to prevent the spread of diseases related to waste. **Physical and Mental Wellbeing in a Clean Environment:** Explore the benefits of living in a clean and pollution-free environment for physical and mental health. Understand how reducing waste and recycling contribute to creating safer and more enjoyable living spaces.

	explore maths concepts within the context of waste reduction. **"Where Does Garbage Go?" by Paul Showers** This informative book takes children on a journey to discover what happens to their garbage after it's thrown away, exploring topics such as landfill management, recycling, and waste reduction through clear explanations and diagrams.	to learn about the recycling process.			recycling facilities. Reflect on the role of digital technology in advocating for environmental awareness and promoting sustainable waste practices. **Music:** **Singing:** Sing songs that raise awareness about waste management and the importance of reducing, reusing, and recycling waste. Learn lyrics that convey messages of environmental responsibility and sustainability. Participate in	Develop appreciation and gratitude for a clean environment as a source of well-being. **Financial Literacy:** **Understanding Resource Value and Waste Reduction:** Learn about the value of resources and materials used in everyday products. Understand the concept of waste as a loss of resources and economic inefficiency. Explore ways to reduce waste and save money through practices such as reusing items and minimising

					group singing activities that foster a sense of responsibility for waste management and environmental stewardship. **Playing Instruments:** Learn to play musical instruments that evoke sounds associated with waste management activities, such as tapping rhythms reminiscent of sorting recyclables. Experiment with percussion instruments to create rhythms that mimic the sounds of waste reduction and	packaging. **Costs and Savings in Waste Management:** Recognise the financial costs associated with waste disposal and landfill management. Understand how investing in recycling and waste reduction programs can lead to long-term savings for communities. Explore ways in which individuals and businesses can reduce waste and save money through sustainable practices.

					recycling processes. Explore melodies and harmonies inspired by themes of environmental responsibility and sustainable waste practices. **Listening and Appraising:** Listen to music inspired by waste management and environmental themes, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about waste reduction and recycling efforts.	

					Learn to critically evaluate music that advocates for sustainable waste practices and its impact on listeners. **Composing:** Compose music that reflects themes of waste management and the importance of reducing, reusing, and recycling waste. Experiment with different musical elements to evoke feelings of responsibility for waste management and environmental stewardship. Collaborate with peers to create original	

					compositions that raise awareness about waste reduction efforts and inspire action towards sustainable waste practices. **Performing:** Perform musical pieces that celebrate responsible waste management and advocate for recycling and waste reduction. Participate in ensemble performances that highlight the importance of protecting the environment through sustainable waste practices. Share musical	

					performances with peers and the community to raise awareness about waste management efforts and inspire action towards responsible waste practices.	
Energy Conservation **(SUS5)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Comprehension:** Develop comprehension skills by reading sustainability-themed	**Number and Place Value:** **Counting Energy Consumption:** Count and	**Working Scientifically:** **Observation Skills:** Develop observation skills	**Computer Science:** **Coding:** Understand how coding can be used to develop	**Energy Conservation - History:** **Changes within Living Memory:** Recognis e	**Art and Design:** **Drawing:** Use drawing to illustrate the importance of energy conservation by depicting scenes	**Personal, Social, Health and Economic Education (PSHE):** **Energy Awareness:** Recognize different

picture books that explore energy conservation topics, such as "The Magic School Bus and the Electric Field Trip" by Joanna Cole or "Energy Island: How One Community Harnessed the Wind and Changed Their World" by Allan Drummond. **Identifying Themes:** Identify and discuss themes related to energy conservation, renewable energy sources, and reducing energy consumption in literature, encouraging students to understand the importance of conserving energy for a sustainable	represent the number of energy-consuming devices in a household or classroom, such as light bulbs or electronic devices, to develop an understanding of energy usage and conservation. **Addition and Subtraction:** **Calculating Energy Savings:** Use addition and subtraction to calculate energy savings achieved through conservation efforts, such as comparing energy bills before and after implementing	by identifying sources of energy in the environment, such as sunlight, wind, and water. **Investigation:** Conduct investigations to explore different forms of energy and how they can be conserved, such as investigating the use of renewable energy sources. **Data Recording:** Practice recording and analysing data related to energy usage, such as tracking energy consumption in the classroom or	applications or simulations that illustrate energy conservation concepts, such as turning off lights or reducing energy consumption in virtual environments. **Algorithms:** Explore algorithms for optimising energy usage, such as algorithms for scheduling tasks to minimise energy consumption or for controlling smart devices to adjust energy settings. **Computational Thinking:** Apply	and discuss changes in energy consumption and conservation practices within their own lifetime and that of their family members, such as the adoption of energy-efficient appliances or the use of renewable energy sources. Understand the importance of conserving energy to reduce environmental impact and address climate change. Identify	of turning off lights when leaving a room or using natural light instead of artificial lighting. Create drawings that showcase energy-saving devices and practices, such as turning off electronics when not in use or using energy-efficient appliances. Explore drawing techniques that convey messages of environmental responsibility and sustainable energy usage. **Painting:** Create paintings that highlight the impact of energy consumption on the environment	forms of energy used in daily life, such as electricity and gas. Understand the importance of conserving energy for personal and environmental well-being. Identify simple actions to reduce energy consumption at home and school. **Responsibility for Energy Conservation:** Develop a sense of responsibility for conserving energy resources. Understand the impact of excessive energy use on the environment and climate change.

future. **Understanding Solutions:** Explore stories that present solutions to energy conservation challenges, fostering critical thinking about how individuals and communities can reduce energy usage and transition to cleaner sources of energy. **Writing:** **Informative Writing:** Practise informative writing skills by composing informational texts, brochures, or reports about energy conservation strategies, renewable energy technologies, or the environmental	energy-efficient practices or appliances. **Multiplication and Division:** **Dividing Energy Usage Equally:** Apply multiplication and division to divide energy consumption equally among different activities or time periods, promoting awareness of energy distribution and the impact of individual actions on conservation. **Fractions:** **Understanding Energy Efficiency**	home. **Science:** **Plants:** Understand the role of plants in the production of energy through photosynthesis and discuss the importance of preserving green spaces for energy conservation. **Animals, including humans:** Investigate the energy needs of animals and humans and discuss ways to conserve energy in daily activities, such as turning off lights when	computational thinking to energy conservation scenarios, such as identifying patterns in energy usage data or developing solutions to reduce energy waste in everyday activities. **Information Technology:** **Using Software:** Utilise software tools to monitor and analyse energy usage, such as using spreadsheets to track energy consumption or using energy monitoring apps	examples of energy-saving initiatives implemented within their community, such as energy-saving campaigns or the installation of solar panels. **Events beyond Living Memory:** Explore historical events that have shaped energy production and consumption patterns, such as the discovery of fossil fuels, the Industrial Revolution, or the development of	and the importance of conserving energy. Experiment with using colours and textures to represent different sources of energy and their effects on ecosystems. Learn about artists who use painting as a medium to advocate for energy conservation and sustainability. **Sculpture:** Use sculpture to represent the concept of energy conservation through the creation of artworks made from recycled	Practice habits that promote energy efficiency, such as turning off lights and appliances when not in use. **Collaboration for Energy Efficiency:** Engage in collaborative activities to promote energy conservation within the school and local community. Work together to implement energy-saving initiatives, such as organising energy audits or promoting energy-efficient technologies. Understand the importance of teamwork in achieving common goals related to

impacts of energy consumption. **Creative Writing:** Encourage creativity through storytelling, allowing students to imagine and write narratives that promote energy-saving practices, innovative solutions to energy challenges, or the benefits of renewable energy sources. **Reflective Writing:** Encourage reflective writing by asking students to journal about their own energy usage habits, brainstorming ways to conserve energy at home or school, and reflecting on the importance of energy	**Ratings:** Explore energy efficiency ratings for appliances or devices using fractions, such as comparing energy labels to identify the most efficient options and understand the significance of energy conservation. **Measurement:** **Measuring Energy Consumption:** Use measurement skills to quantify energy consumption, such as measuring the duration of time that lights or appliances are in	not in use. **Everyday Materials:** Identify materials used for energy production and discuss their environmental impact, exploring ways to reduce energy consumption through energy-efficient technologies. **Seasonal Changes:** Observe and discuss seasonal changes in energy usage, such as increased heating or cooling needs during different times of the year, and explore	to identify areas for improvement. **Internet Safety:** Learn about internet safety when researching energy conservation information online, including understanding how to evaluate sources and protect personal data. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used for energy conservation, such as smart thermostats, energy-efficient	nuclear power. Understand how past events have influenced current energy challenges, including pollution, resource depletion, and climate change. Develop an awareness of the long-term consequences of unsustainable energy practices on the environment and society. **Significant Historical Figures and Events and Sustainability Activists and**	materials or materials that represent renewable energy sources. Create sculptures that raise awareness about the importance of reducing energy consumption and utilising renewable energy alternatives. Experiment with sculptural techniques and materials that reflect principles of sustainability and environmental stewardship. **Printing:** Use printing techniques to create artwork that communicates	energy conservation. **Citizenship:** **Understanding Rights and Responsibilities:** Recognize the right to access clean and affordable energy for all individuals. Understand personal and collective responsibilities in conserving energy and reducing carbon/methane emissions. Explore how individual actions can contribute to global efforts to address climate change and achieve sustainable energy goals.

conservation for the environment. **Speaking and Listening:** **Discussion:** Engage in group discussions about energy conservation topics introduced in picture books, encouraging students to share their ideas, experiences, and concerns related to energy usage and conservation. **Debates:** Conduct debates on energy-related issues, allowing students to explore different viewpoints on topics such as fossil fuels versus renewable energy, energy-efficient technologies, or the	use, to gain insight into energy usage patterns and identify opportunities for conservation. **Geometry:** **Designing Energy-Efficient Spaces:** Identify and use geometric shapes and patterns to design energy-efficient spaces, such as optimising room layouts for natural lighting or airflow, fostering creativity in energy-conscious design. **Statistics:**	strategies for energy conservation. **Living Things and their Habitats:** Learn about the energy requirements of different habitats and discuss how human activities can impact energy availability for wildlife and ecosystems. **Light and Sound:** Explore energy sources related to light and sound production, such as electricity and batteries, and discuss ways to reduce energy waste in these	appliances, or solar panels, and understand their role in reducing energy consumption. **Design and Technology:** **Designing:** Design products or solutions that promote energy conservation, such as designing energy-efficient lighting systems or creating posters and educational materials to raise awareness about energy-saving practices. **Making:**	**Environmentalists:** Learn about historical figures who have advocated for sustainable energy practices, such as Elon Musk, Amory Lovins, or Vandana Shiva. Understand the contributions of these individuals to raising awareness about the environmental impacts of energy production and promoting renewable energy solutions.	messages of energy conservation and sustainable energy usage. Create prints that depict scenes of energy-saving practices, such as using public transportation or carpooling instead of driving alone. Experiment with sustainable printing methods and eco-friendly inks to minimise environmental impact. **Textiles:** Create textile artworks that raise awareness about energy conservation through the use of recycled fabrics	**Democracy in Energy Decision-Making:** Learn about democratic processes related to energy policy and regulation. Understand the importance of citizen participation in decision-making about energy sources and consumption. Recognise the role of individuals in advocating for renewable energy solutions and energy-efficient practices. **Law, Justice, and Energy Regulation:** Explore laws and

impact of energy consumption on the environment. **Role-Playing:** Role-play scenarios that involve making energy-saving decisions, such as turning off lights when leaving a room, using energy-efficient appliances, or participating in energy-saving initiatives at school. **Energy Conservation Picture Book Themes:** **Renewable Energy:** Explore stories that introduce renewable energy sources such as solar power, wind energy, hydroelectricity, and geothermal energy,	**Analysing Energy Usage Data:** Collect and analyse statistical data on energy usage, such as tracking energy consumption over time or comparing usage between different areas or activities, to inform conservation strategies and decision-making. **Maths Picture Books to Support:** **"The Magic School Bus and the Electric Field Trip" by Joanna Cole** Join Ms. Frizzle and her class on	areas. **Geography:** **Locational Knowledge:** Identify countries, continents, and oceans where different forms of energy are produced and discuss global efforts to promote renewable energy. **Place Knowledge:** Develop an understanding of energy resources and infrastructure in the local area and the UK, discussing ways to transition to more sustainable	Engage in hands-on making activities to create prototypes or models of energy-saving devices, such as building a model solar cooker or designing a wind turbine. **Evaluating:** Evaluate the effectiveness of energy conservation solutions, considering factors such as energy savings, usability, and environmental impact. **Technical Knowledge:** Gain technical	Explore key historical events related to energy conservation, such as the development of wind and solar power technologies, the implementation of energy efficiency standards, or the establishment of environmental organisations focused on energy issues. **Historical Interpretation:** Develop skills in analysing historical sources related to energy conservation,	and materials or textiles that represent renewable energy sources. Experiment with textile techniques such as embroidery or appliqué to represent energy-saving devices and practices. Learn about sustainable textile practices and consider the environmental impact of textile production and consumption related to energy usage. **Collage:** Use collage to create artworks that advocate for	regulations related to energy conservation and environmental protection. Understand the consequences of unsustainable energy practices on the environment and communities. Discuss the role of law enforcement and citizens in upholding energy conservation laws and promoting environmental justice. **Health and Wellbeing:** **Environmental Health and Safety:** Understand how energy production and consumption can impact air and

highlighting their benefits and potential for reducing greenhouse gas emissions. **Energy Efficiency:** Discuss books that emphasise energy-efficient practices and technologies, such as energy-saving light bulbs, smart thermostats, insulation, and energy-efficient transportation options. **Community Action:** Learn about community efforts to promote energy conservation, such as energy audits, energy-saving campaigns, community solar projects, or the development of bike lanes and public	an electrifying adventure to learn about electricity and energy conservation, engaging children with fun illustrations and informative content that explores maths concepts related to energy. **"Energy Island: How One Community Harnessed the Wind and Changed Their World" by Allan Drummond** This inspiring true story follows the journey of a community as they transition to renewable energy sources, introducing	energy sources. **Human and Physical Geography:** Investigate human impact on the environment through energy consumption and production, discussing the environmental and social implications of different energy sources. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on energy conservation, such as conducting	knowledge related to energy conservation technologies, such as understanding how renewable energy sources work or how energy-efficient appliances are designed and operated.	such as archival photographs, government documents, or scientific reports. Understand that historical interpretations of energy practices may vary based on technological, economic, and political factors. Engage in discussions about different interpretations of historical figures and events related to energy conservation, fostering critical thinking and empathy towards differing	energy conservation by incorporating images of energy-efficient technologies, renewable energy sources, and messages about responsible energy usage. Experiment with combining different materials and textures to create visually impactful collages that highlight the importance of reducing energy consumption. Create collages that inspire viewers to take action towards responsible energy usage and environmental stewardship. **Digital Art:**	water quality. Learn about the health risks associated with pollution from fossil fuel combustion. Practice behaviors that promote clean energy and reduce exposure to harmful pollutants. **Physical and Mental Wellbeing in a Sustainable Environment:** Explore the benefits of living in a sustainable environment for physical and mental health. Understand how reducing energy consumption and transitioning to renewable energy sources can

transportation systems.	children to concepts such as wind power and energy conservation through captivating illustrations and real-world examples. **"One Plastic Bag: Isatou Ceesay and the Recycling Women of the Gambia" by Miranda Paul** While not directly focused on energy conservation, this book tells the story of Isatou Ceesay and her efforts to recycle plastic bags into useful products, demonstrating the power of conservation and	energy audits or exploring renewable energy installations in the community.		viewpoints.	Use digital tools to create artwork that communicates messages of energy conservation and the importance of utilising renewable energy sources. Experiment with digital painting, illustration, and animation techniques to depict energy-related themes, such as wind turbines or solar panels. Reflect on the role of digital technology in advocating for environmental awareness and promoting sustainable	improve air quality and mitigate climate change. Develop appreciation and gratitude for a clean and healthy environment as a source of well-being. **Financial Literacy:** **Understanding Resource Value and Energy Efficiency:** Learn about the value of energy resources and the economic costs of excessive energy consumption. Understand the concept of energy efficiency and its role in reducing utility bills and

	sustainable practices in a relatable and inspiring way.				energy practices. **Music:** **Singing:** Sing songs that raise awareness about energy conservation and the importance of reducing energy consumption. Learn lyrics that convey messages of environmental responsibility and sustainability related to energy usage. Participate in group singing activities that foster a sense of responsibility for energy conservation and environmental stewardship.	saving money. Explore ways to conserve energy and save money through simple lifestyle changes and energy-saving technologies. **Costs and Savings in Energy Conservation:** Recognize the financial costs associated with energy waste and inefficiency. Understand how investing in energy-saving measures can lead to long-term savings for individuals and communities. Explore ways in which individuals and businesses can reduce energy

					Playing Instruments: Learn to play musical instruments that evoke sounds associated with energy conservation activities, such as wind blowing or water flowing in a stream. Experiment with percussion instruments to create rhythms that mimic the sounds of energy-efficient technologies, such as solar panels or wind turbines. Explore melodies and harmonies inspired by themes of environmental	consumption and save money while promoting sustainability.

					responsibility and sustainable energy practices. **Listening and Appraising:** Listen to music inspired by energy conservation and environmental themes, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about energy conservation efforts and promoting sustainable energy practices. Learn to critically evaluate music that advocates for responsible energy usage and its impact on	

					listeners. **Composing:** Compose music that reflects themes of energy conservation and the importance of reducing energy consumption. Experiment with different musical elements to evoke feelings of responsibility for energy usage and inspire action towards sustainable energy practices. Collaborate with peers to create original compositions that raise awareness about energy conservation efforts and promote	

					stewardship of energy resources. **Performing:** Perform musical pieces that celebrate responsible energy usage and advocate for energy conservation. Participate in ensemble performances that highlight the importance of protecting the environment through sustainable energy practices. Share musical performances with peers and the community to raise awareness about energy conservation efforts and inspire action towards	

					responsible energy usage.	
Biodiversity and Ecosystems **(SUS6)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Exploring Diversity:** Read and discuss biodiversity-themed picture books that introduce children to the concept of biodiversity, showcasing the variety of plants, animals, and ecosystems found in different habitats	**Number and Place Value:** **Counting Biodiversity:** Count and represent the number of different plant or animal species in a given habitat, developing an understanding of biodiversity and the importance of	**Working Scientifically:** **Observation Skills:** Develop observation skills by identifying different species of plants and animals in local ecosystems. **Investigation:**	**Computer Science:** **Coding:** Understand how coding can be used to create simulations or games that explore biodiversity and ecosystems, such as virtual habitats or interactive food webs.	**Biodiversity and Ecosystems - History:** **Changes within Living Memory:** Recognise and discuss changes in biodiversity and ecosystems within their own lifetime	**Art and Design:** **Drawing:** Use drawing to observe and depict elements of biodiversity, such as various plants, animals, and insects found in local ecosystems. Develop basic drawing skills to accurately represent different	**Personal, Social, Health and Economic Education (PSHE):** **Biodiversity Awareness:** Recognize the diversity of living organisms in different ecosystems, such as plants, animals, and microorganisms.

worldwide. **Understanding Interdependence:** Explore stories that highlight the interconnectedness of living organisms within ecosystems, emphasising the importance of biodiversity for maintaining ecosystem balance and resilience. **Appreciating Nature:** Engage with literature that celebrates the beauty and wonder of nature, encouraging children to develop a sense of awe and appreciation for the diverse forms of life found in their local environment and	preserving diverse ecosystems. **Addition and Subtraction:** **Calculating Population Changes:** Use addition and subtraction to calculate changes in population sizes of specific species within an ecosystem, exploring concepts of growth, decline, and balance in natural environments. **Multiplication and Division:** **Understanding Habitat**	Conduct investigations to explore the interrelationships between living organisms and their habitats, such as studying the food chains in a pond ecosystem. **Data Recording:** Practice recording and analysing data related to biodiversity, such as keeping track of the number of different species found in different habitats. **Science:** **Plants:** Learn about the diversity of plant	**Algorithms:** Explore algorithms for modelling ecological processes, such as algorithms for simulating predator-prey interactions or for analysing biodiversity data. **Computational Thinking:** Apply computational thinking skills to biodiversity and ecosystem scenarios, such as identifying patterns in animal behaviours or designing solutions to protect endangered	and that of their family members, such as changes in local wildlife populations, habitat destruction, or the introduction of invasive species. Understand the importance of biodiversity for ecosystem health and resilience. Identify examples of conservation efforts and habitat restoration projects within their community. **Events beyond Living Memory:**	species and their habitats. Explore drawing techniques that convey the interconnectedness of biodiversity and ecosystems. **Painting:** Create paintings that showcase the beauty and diversity of ecosystems, including different landscapes, habitats, and ecosystems found in nature. Experiment with using colours and textures to represent different elements of biodiversity, such as vibrant flora and fauna.	Understand the importance of biodiversity for maintaining healthy ecosystems and sustaining life on Earth. Identify simple actions to protect and preserve biodiversity in local environments. **Connection to Nature:** Develop a sense of connection and empathy towards the natural world. Understand the interdependence between humans, animals, plants, and ecosystems. Engage in activities that foster appreciation and respect for biodiversity, such as

beyond. **Writing:** **Descriptive Writing:** Practise descriptive writing skills by describing various ecosystems, habitats, and the plants and animals that inhabit them, using vivid language to paint a picture of biodiversity-rich environments. **Narrative Writing:** Encourage creative storytelling by inviting students to write narratives that explore imaginary ecosystems, inventing new species of plants and animals and describing their roles within the	**Fragmentation:** Apply multiplication and division to illustrate the effects of habitat fragmentation on biodiversity, dividing areas of land into smaller sections to understand the impact on species distribution and survival. **Fractions:** **Fraction of Habitats Preserved:** Use fractions to represent the proportion of natural habitats preserved compared to those lost due to human activities, fostering an	species and their roles in supporting ecosystems, such as providing oxygen, food, and habitats for animals. **Animals, including humans:** Explore the diversity of animal species and their interactions with plants and other animals in different habitats. **Everyday Materials:** Investigate the impact of human activities on biodiversity, such as habitat destruction and	species. **Information Technology:** **Using Software:** Utilise software tools to research and analyse biodiversity data, such as using databases to track species populations or using mapping software to visualise ecosystems. **Internet Safety:** Learn about internet safety when researching biodiversity and ecosystems online, including understanding how to evaluate	Explore historical events that have impacted biodiversity and ecosystems, such as deforestation, habitat loss, or the introduction of non-native species. Understand how past events have contributed to current biodiversity challenges, including species extinction, habitat fragmentation, and climate change.	Learn about artists who use painting to raise awareness about biodiversity conservation and the importance of preserving ecosystems. **Sculpture:** Use sculpture to represent elements of biodiversity and ecosystems through the creation of artworks inspired by plants, animals, and natural forms. Experiment with sculptural techniques and materials to depict the diversity of life found in various ecosystems.	nature walks and wildlife observation. **Responsibility for Ecosystem Health:** Understand the role of individuals in maintaining the health and balance of ecosystems. Recognize the impact of human activities on biodiversity and ecosystem degradation. Practice behaviours that promote ecosystem conservation and sustainable living. **Citizenship:** **Understanding Rights and Responsibilities:** Recognize the right of all living beings to

ecosystem. **Research and Reporting:** Conduct research on specific ecosystems or endangered species and write informational reports or posters to raise awareness about the importance of preserving biodiversity and protecting vulnerable species. **Speaking and Listening:** **Group Discussions:** Engage in group discussions about biodiversity and ecosystems, encouraging students to share their observations,	understanding of conservation efforts and their impact on biodiversity. **Measurement:** **Measuring Species Diversity:** Use measurement skills to quantify species diversity within different ecosystems, such as measuring the number of different species per square metre in a forest or pond, promoting awareness of the richness of biodiversity. **Geometry:**	pollution, and discuss ways to minimise these impacts. **Seasonal Changes:** Observe and discuss seasonal changes in biodiversity, such as the migration patterns of birds or the flowering of plants, and explore the importance of these changes for ecosystem health. **Living Things and their Habitats:** Learn about different habitats and the living organisms that inhabit them, discussing the	sources and protect personal information. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used in biodiversity research and conservation, such as wildlife cameras, GPS trackers, or environmental sensors, and understand their role in ecosystem monitoring. **Design and Technology:** **Designing:** Design products	Develop an appreciation for the interconnectedness of biodiversity and ecosystems and their role in supporting life on Earth. **Significant Historical Figures and Events and Sustainability Activists and Environmentalists:** Learn about historical figures who have played important roles in biodiversity conservation and ecosystem protection, such as David Attenborough,	Create sculptures that raise awareness about the importance of protecting biodiversity and preserving natural habitats. **Printing:** Use printing techniques to create artwork that celebrates biodiversity and highlights the importance of protecting ecosystems. Create prints that depict scenes of diverse ecosystems, including forests, coral reefs, and grasslands, and the wildlife that inhabits them. Experiment with	exist and thrive in their natural habitats. Understand personal and collective responsibilities in protecting biodiversity and preserving ecosystems. Explore how individual actions can contribute to global efforts to conserve biodiversity and achieve sustainable development goals. **Democracy in Environmental Decision-Making:** Learn about democratic processes related to environmental conservation and resource

questions, and ideas about the natural world and the diversity of life forms. **Presentations:** Give oral presentations on biodiversity-themed topics, such as different types of ecosystems, the importance of biodiversity for human well-being, or conservation efforts to protect endangered species. **Nature Walks and Observations:** Take nature walks to observe local biodiversity firsthand, encouraging students to listen to the sounds of nature, observe different plant and animal species, and discuss	**Mapping Ecosystems:** Use geometric shapes and concepts to map out ecosystems, identifying key features such as habitats, water sources, and vegetation cover to understand the spatial relationships within an ecosystem. **Statistics:** **Analysing Species Data:** Collect and analyse statistical data on species populations and distributions within ecosystems, such as tracking	adaptations that help organisms survive in their environments. **Light and Sound:** Explore how light and sound pollution can impact biodiversity and ecosystem health, and discuss ways to reduce these forms of pollution. **Geography:** **Locational Knowledge:** Identify countries, continents, and oceans with diverse ecosystems and discuss the	or solutions that promote biodiversity and ecosystem conservation, such as designing wildlife-friendly habitats or creating educational materials to raise awareness about local ecosystems. **Making:** Engage in hands-on making activities to create models or prototypes of ecosystems, such as building a mini-pond habitat or constructing a bird feeder to attract local wildlife.	Jane Goodall, or Sylvia Earle. Understand the contributions of these individuals to raising awareness about the importance of biodiversity and advocating for habitat preservation. Explore key historical events related to biodiversity conservation, such as the establishment of national parks, the signing of international conservation agreements, or the founding of environmental organisations focused on	sustainable printing methods and eco-friendly inks to minimise environmental impact. **Textiles:** Create textile artworks that raise awareness about biodiversity through the use of fabric collage or embroidery to depict different species and their habitats. Experiment with textile techniques such as appliqué or quilting to represent the intricate web of life found in ecosystems. Learn about sustainable textile practices and	management. Understand the importance of citizen participation in decision-making about land use, conservation policies, and wildlife protection. Recognize the role of individuals in advocating for biodiversity conservation and sustainable ecosystem management. **Law, Justice, and Environmental Protection:** Explore laws and regulations aimed at protecting biodiversity and preserving natural habitats. Understand the

their findings with classmates. **Biodiversity and Ecosystems Picture Book Themes:** **Habitat Exploration:** Discover books that take readers on a journey through various habitats, such as rainforests, coral reefs, deserts, and grasslands, highlighting the unique plants, animals, and environmental features of each ecosystem. **Endangered Species:** Learn about endangered species and their habitats through stories that raise awareness about the threats facing these	changes over time or comparing data between different habitats, to understand patterns and trends in biodiversity. **Maths Picture Books to Support:** **"The Great Kapok Tree: A Tale of the Amazon Rainforest" by Lynne Cherry** This beautifully illustrated book introduces children to the importance of biodiversity in the Amazon Rainforest through the story of a man who falls asleep under	factors that contribute to their biodiversity. **Place Knowledge:** Develop an understanding of local ecosystems and their importance for biodiversity conservation, discussing ways to protect and preserve natural habitats. **Human and Physical Geography:** Investigate human impact on biodiversity through activities such as deforestation, urbanisation, and agriculture, and	**Evaluating:** Evaluate the effectiveness of biodiversity conservation solutions, considering factors such as habitat suitability, species diversity, and environmental impact. **Technical Knowledge:** Gain technical knowledge related to biodiversity monitoring and conservation technologies, such as understanding how ecological surveys are conducted or	biodiversity issues. **Historical Interpretation:** Develop skills in analysing historical sources related to biodiversity and ecosystems, such as scientific journals, field notes, or conservation reports. Understand that historical interpretations of biodiversity and ecosystems may vary based on scientific knowledge, cultural values, and	consider the environmental impact of habitat destruction and biodiversity loss. **Collage:** Use collage to create artworks that celebrate biodiversity by combining images of various plants, animals, and ecosystems. Experiment with combining different materials and textures to create visually engaging collages that highlight the interconnectedness of life on Earth. Create collages that inspire viewers to appreciate the beauty and	consequences of habitat destruction, pollution, and overexploitation on ecosystems and wildlife. Discuss the role of law enforcement and citizens in upholding environmental laws and promoting environmental justice for all species. **Health and Wellbeing:** **Environmental Health and Harmony:** Understand how healthy ecosystems contribute to human health and well-being. Learn about the benefits of spending

animals and the importance of conservation efforts to protect their biodiversity. **Life Cycles:** Explore picture books that explore the life cycles of plants and animals, from birth to maturity, showcasing the interconnectedness of different life stages and the role they play in maintaining ecosystem balance.	a kapok tree and dreams of the animals that live there. It provides opportunities for counting and discussing the variety of species depicted. **"Over and Under the Pond" by Kate Messner** This book takes readers on an underwater journey to explore the diverse ecosystems found beneath the surface of a pond. Through engaging illustrations and lyrical prose, children can learn about the interconnectedne ss of life in	discuss strategies for sustainable land use. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on biodiversity and ecosystems, such as conducting habitat surveys or exploring local parks and nature reserves.	how to interpret biodiversity data.	socio-economi c factors. Engage in discussions about different interpretations of historical figures and events related to biodiversity conservation, fostering critical thinking and empathy towards differing viewpoints.	importance of biodiversity and take action to protect it. **Digital Art:** Use digital tools to create artwork that showcases the diversity of ecosystems and the importance of preserving biodiversity. Experiment with digital painting, illustration, and animation techniques to depict different species and their interactions within ecosystems. Reflect on the role of digital technology in raising awareness about biodiversity conservation and	time in natural environments for physical and mental health. Practice behaviours that promote harmony with nature and support ecosystem health. **Appreciation of Nature's Beauty:** Explore the beauty and diversity of natural landscapes and wildlife. Develop an appreciation for the aesthetic value of biodiversity and ecosystems. Engage in creative activities inspired by nature, such as drawing, storytelling, and nature journaling.

	aquatic habitats while practising measurement concepts such as depth and distance. **"The Water Princess" by Susan Verde** While not directly focused on maths, this book tells the story of a young girl who dreams of bringing clean water to her village in Africa. It provides opportunities for discussions about the importance of biodiversity and healthy ecosystems in providing essential resources like				promoting stewardship of natural resources. **Music:** **Singing:** Sing songs that celebrate biodiversity and raise awareness about the importance of protecting ecosystems. Learn lyrics that convey messages of environmental stewardship and the interconnectedness of life on Earth. Participate in group singing activities that foster a sense of appreciation for the diversity of species and	**Financial Literacy:** **Understanding Economic Value of Biodiversity:** Learn about the economic benefits provided by biodiversity, such as food, medicine, and ecosystem services. Understand the concept of natural capital and its importance for economic development and human well-being. Explore ways in which conserving biodiversity can lead to long-term economic prosperity and sustainable growth. **Costs and Savings in Ecosystem Conservation:**

	water.				ecosystems. **Playing Instruments:** Learn to play musical instruments that evoke sounds associated with nature, such as bird songs or flowing water. Experiment with percussion instruments to create rhythms inspired by the sounds of different ecosystems, such as the rustling of leaves or the chirping of insects. Explore melodies and harmonies that reflect the beauty and complexity of	Recognize the financial costs associated with ecosystem degradation and loss of biodiversity. Understand how investing in ecosystem conservation and restoration can lead to long-term savings and economic benefits. Explore opportunities for individuals and communities to support biodiversity conservation through sustainable land management and ecotourism initiatives.

					biodiversity. **Listening and Appraising:** Listen to music inspired by biodiversity and ecosystems, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about biodiversity conservation and promoting stewardship of natural resources. Learn to critically evaluate music that advocates for the protection of ecosystems and its impact on listeners. **Composin**	

					g: Compose music that reflects themes of biodiversity and the interconnectedness of life within ecosystems. Experiment with different musical elements to evoke feelings of appreciation for nature and inspire action towards biodiversity conservation. Collaborate with peers to create original compositions that raise awareness about the importance of preserving ecosystems and protecting biodiversity. **Performing:**	

					Perform musical pieces that celebrate the diversity of life on Earth and advocate for the protection of ecosystems. Participate in ensemble performances that highlight the beauty and complexity of biodiversity. Share musical performances with peers and the community to raise awareness about the importance of preserving ecosystems and protecting biodiversity.	

Climate Change and Adaptation **(SUS7)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Climate Awareness:** Read and discuss picture books that introduce children to the concept of climate change, exploring how human activities impact the environment and contribute to global warming. **Adaptation Stories:**	**Number and Place Value:** **Counting Climate Data:** Count and represent climate-related data, such as the number of days with rainfall or temperature fluctuations, to understand patterns and changes in weather over time.	**Working Scientifically:** **Observation Skills:** Develop observation skills by identifying changes in weather patterns and seasonal changes in the local environment. **Investigation:** Conduct	**Computer Science:** **Coding:** Understand how coding can be used to create simulations or games that illustrate the impacts of climate change and potential adaptation strategies, such as coding a virtual greenhouse or a weather	**Climate Change and Adaptation - History:** **Changes within Living Memory:** Recognize and discuss changes in weather patterns and climate within their own lifetime and that of their family	**Art and Design:** **Drawing:** Use drawing to depict the effects of climate change on the environment, such as melting ice caps, extreme weather events, and changes in landscapes. Develop basic drawing skills to illustrate adaptations that plants, animals,	**Personal, Social, Health and Economic Education (PSHE):** **Climate Change Awareness:** Recognise the concept of climate change and its impacts on the environment and society. Understand basic causes of climate change such as greenhouse gas emissions and

Explore stories that feature animals adapting to changing environments due to climate change, highlighting how species evolve to survive in new conditions and the challenges they face. **Weather Phenomena:** Engage with literature that explains weather phenomena associated with climate change, such as extreme weather events, melting ice caps, and rising sea levels, helping children understand the scientific basis of climate change. **Writing:**	**Addition and Subtraction:** **Calculating Temperature Changes:** Use addition and subtraction to calculate changes in temperature, comparing current temperatures with historical data to identify trends and variations related to climate change. **Multiplication and Division:** **Analysing Carbon Footprints:** Apply multiplication and	investigations to explore the effects of climate change on plants, animals, and habitats, such as studying the impact of temperature changes on plant growth. **Data Recording:** Practice recording and analysing data related to climate variables, such as temperature, rainfall, and wind speed, to understand patterns and trends. **Science:** **Plants:** Learn about the	monitoring system. **Algorithms:** Explore algorithms for analysing climate data and predicting future climate trends, such as algorithms for temperature forecasting or for modelling sea level rise. **Computational Thinking:** Apply computational thinking skills to climate change scenarios, such as identifying cause-and-effect relationships in climate systems or developing solutions to mitigate the impacts of	members, such as extreme weather events, temperature fluctuations, or changes in precipitation. Understand the impact of climate change on ecosystems, wildlife, and human communities. Identify examples of climate change adaptation measures and resilience-building efforts within their community. **Events beyond Living Memory:**	and humans make in response to climate change. Explore drawing techniques that convey messages of resilience and adaptation in the face of environmental challenges. **Painting:** Create paintings that raise awareness about climate change and its impact on ecosystems, habitats, and communities. Experiment with using colors and textures to represent the effects of climate change, such as rising sea levels, drought, and	deforestation. Identify simple actions individuals can take to mitigate climate change and reduce their carbon footprint. **Emotional Wellbeing in Climate Change:** Develop awareness and understanding of emotions related to climate change, such as concern and hope. Explore ways to cope with feelings of anxiety or uncertainty about climate change. Foster resilience and positive attitudes towards taking action to address climate

Climate Diaries: Practice diary writing by imagining themselves as characters experiencing the effects of climate change, describing changes in their environment, feelings, and actions they take to adapt. **Climate Change Stories:** Write imaginative stories that explore scenarios of a world affected by climate change, encouraging creative thinking about potential solutions and ways individuals can mitigate its impact. **Informational Writing:** Research climate	division to analyse carbon footprints, calculating emissions from various sources and exploring ways to reduce or offset them to mitigate climate change. **Fractions:** **Fraction of Renewable Energy Use:** Use fractions to represent the proportion of renewable energy sources used compared to non-renewable sources, fostering an understanding of sustainable energy practices and their impact on climate	effects of climate change on plant life, such as shifts in flowering times or changes in distribution patterns, and discuss strategies for plant adaptation. **Animals, including humans:** Explore the impact of climate change on animal habitats and behaviours, such as migration patterns and breeding seasons, and discuss adaptations for survival. **Everyday Materials:** Investigate the	climate change. **Information Technology:** **Using Software:** Utilise software tools to research and analyse climate change data, such as using interactive maps to explore climate patterns or using spreadsheets to track environmental changes. **Internet Safety:** Learn about internet safety when researching climate change information online, including	Explore historical events that have contributed to climate change, such as the Industrial Revolution, the burning of fossil fuels, or deforestation. Understand how past events have shaped current climate challenges, including global warming, sea level rise, and changes in weather patterns. Develop an awareness of the long-term consequences of climate	wildfires. Learn about artists who use painting to advocate for climate action and adaptation strategies. **Sculpture:** Use sculpture to represent adaptations to climate change through the creation of artworks inspired by resilient species and innovative technologies. Experiment with sculptural techniques and materials to depict the ways in which plants, animals, and humans adapt to changing	change. **Responsibility for Climate Action:** Understand the importance of taking responsibility for addressing climate change as individuals and as a community. Explore the concept of stewardship and collective action in caring for the environment and mitigating climate impacts. Engage in activities that promote environmental stewardship and support sustainable practices. **Citizenship:** **Understanding Rights and**

change and write informational texts or posters to educate others about its causes, effects, and the importance of taking action to reduce carbon emissions and protect the planet. **Speaking and Listening:** **Group Discussions:** Engage in group discussions about climate change, allowing students to share their thoughts, concerns, and ideas for addressing the issue, fostering critical thinking and collaboration skills. **Role-Playing:**	change. **Measurement:** **Measuring Sea Level Rise:** Use measurement skills to quantify sea level rise over time, exploring the effects of melting ice caps and thermal expansion on coastal areas and habitats. **Geometry:** **Mapping Climate Zones:** Use geometric shapes and concepts to map out climate zones around the world,	carbon footprint of everyday materials and discuss ways to reduce greenhouse gas emissions through recycling and sustainable consumption. **Seasonal Changes:** Observe and discuss changes in seasonal patterns and weather events attributed to climate change, such as changes in precipitation or the frequency of extreme weather events. **Living Things and their Habitats:** Learn about the	understanding how to evaluate sources and discern credible information. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used in climate monitoring and adaptation, such as weather stations, climate sensors, or remote sensing devices, and understand their role in studying climate change. **Design and Technology:** **Designing:**	change on the environment and society. **Significant Historical Figures and Events and Sustainability Activists and Environmentalists:** Learn about historical figures who have advocated for climate action and sustainability, such as Al Gore, Wangari Maathai, or Greta Thunberg. Understand the contributions of these individuals to raising	environmental conditions. Create sculptures that inspire hope and action towards addressing the challenges of climate change. **Printing:** Use printing techniques to create artwork that communicates messages of climate change adaptation and resilience. Create prints that depict scenes of communities working together to mitigate the effects of climate change and adapt to new	**Responsibilities:** Recognise the right to a safe and stable climate as a basic human right. Understand personal and collective responsibilities in addressing climate change and reducing greenhouse gas emissions. Explore how individual actions can contribute to global efforts to mitigate climate change and achieve sustainable development goals. **Democracy in Climate Action:** Learn about democratic processes related to

Role-play scenarios related to climate change, such as community meetings to discuss environmental policies, interviews with climate scientists, or debates about the pros and cons of renewable energy sources. **Climate Change Presentations:** Give presentations on climate change topics, such as the greenhouse effect, deforestation, or renewable energy, practising speaking skills while sharing knowledge with classmates. **Climate Change and Adaptations Picture Book Themes:**	identifying regions affected by different climate patterns such as polar, temperate, and tropical climates. **Statistics:** **Analysing Climate Data Trends:** Collect and analyse statistical data on climate indicators, such as average temperatures, precipitation levels, or greenhouse gas concentrations, to identify trends and patterns associated with climate change. **Maths Picture Books to Support:**	vulnerability of different habitats to climate change, such as coastal ecosystems threatened by sea-level rise, and discuss strategies for habitat conservation and restoration. **Light and Sound:** Explore the role of greenhouse gases in trapping heat in the atmosphere, leading to global warming, and discuss the consequences of rising temperatures on ecosystems and human societies. **Geography:**	Design products or solutions that address climate change challenges or promote adaptation strategies, such as designing energy-efficient buildings or creating educational materials about renewable energy. **Making:** Engage in hands-on making activities to create prototypes or models of climate adaptation measures, such as building a model wind turbine or designing a	awareness about climate change and promoting solutions for mitigation and adaptation. Explore key historical events related to climate change, such as the signing of international climate agreements, the development of renewable energy technologies, or the founding of environmental organisations focused on climate issues. **Historical Interpretation:**	challenges. Experiment with sustainable printing methods and eco-friendly inks to minimise environmental impact. **Textiles:** Create textile artworks that raise awareness about climate change adaptation through the use of fabric collage or embroidery to depict resilient communities and ecosystems. Experiment with textile techniques such as quilting or weaving to represent adaptation strategies, such as green	climate policy and international cooperation. Understand the importance of citizen participation in decision-making about climate change mitigation and adaptation strategies. Recognize the role of individuals in advocating for climate action and holding policymakers accountable for addressing climate change. **Law, Justice, and Climate Protection:** Explore laws and regulations aimed at reducing greenhouse gas emissions and

Environmental Conservation: Discover books that emphasise the importance of environmental conservation and sustainable living practices, inspiring children to take action to protect the planet. **Animal Adaptations:** Explore stories that showcase how animals adapt to changing climates, from migrating to new habitats to developing new behaviours and physical characteristics. **Community Resilience:** Learn about communities around the world facing the impacts of climate change and how they work	**"The Magic School Bus and the Climate Challenge" by Joanna Cole** This interactive book follows Ms. Frizzle and her class as they learn about climate change through a series of adventures. It provides opportunities for counting, addition, and subtraction as children explore climate-related concepts. **"Why the Sky Is Blue: Discovering the Color of Life" by Götz Hoeppe** While not directly focused on	**Locational Knowledge:** Identify countries, continents, and oceans affected by climate change and discuss the uneven distribution of impacts and vulnerabilities. **Place Knowledge:** Develop an understanding of local climate patterns and their connection to global climate systems, discussing ways to mitigate and adapt to climate change in the local area. **Human and**	rainwater harvesting system. **Evaluating:** Evaluate the effectiveness of climate adaptation solutions, considering factors such as resilience, sustainability, and community impact. **Technical Knowledge:** Gain technical knowledge related to climate science and adaptation technologies, such as understanding how greenhouse gases affect the	Develop skills in analysing historical sources related to climate change, such as climate data records, scientific studies, or policy documents. Understand that historical interpretations of climate change may vary based on scientific knowledge, political agendas, and cultural perspectives. Engage in discussions about different interpretations of historical figures and events related	infrastructure or renewable energy technologies. Learn about sustainable textile practices and consider the environmental impact of climate change on fabric production and consumption. **Collage:** Use collage to create artworks that highlight the importance of climate change adaptation by combining images of resilient communities, adaptive technologies, and messages of hope. Experiment with combining	promoting renewable energy. Understand the consequences of climate change on vulnerable communities and ecosystems. Discuss the role of law enforcement and citizens in upholding climate-related laws and promoting environmental justice for all. **Health and Wellbeing:** **Understanding Climate Health Risks:** Learn about the health impacts of climate change, such as extreme weather events, air pollution, and

together to build resilience and adapt to environmental challenges.	maths, this book introduces children to the science behind the Earth's atmosphere and climate. It includes opportunities for measurement and geometry discussions related to the sun's angle and the Earth's curvature. **"If Polar Bears Disappeared" by Lily Williams** This book explores the impact of climate change on polar bears and their Arctic habitat. It provides opportunities for discussing fractions, as children learn	**Physical Geography:** Investigate human activities contributing to climate change, such as deforestation and fossil fuel combustion, and discuss strategies for reducing emissions and promoting sustainable development. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on climate change, such as collecting weather data or	climate or how renewable energy systems can help mitigate climate change.	to climate change, fostering critical thinking and empathy towards differing viewpoints.	different materials and textures to create visually engaging collages that convey the complexity of climate change and the need for adaptation. Create collages that inspire viewers to take action towards building a more resilient and sustainable future. **Digital Art:** Use digital tools to create artwork that raises awareness about climate change adaptation and resilience. Experiment with digital painting, illustration, and animation	vector-borne diseases. Understand how climate change affects physical and mental health and well-being. Explore ways to stay safe and healthy in a changing climate, such as heatwave preparedness and air quality awareness. **Emotional Wellbeing in Climate Adaptation:** Develop resilience and coping strategies for dealing with climate-related challenges and disruptions. Foster a sense of

	about the fraction of Arctic sea ice lost each year due to rising temperatures.	studying the impacts of climate change on local ecosystems through field observations.			techniques to depict adaptation strategies and the resilience of communities and ecosystems. Reflect on the role of digital technology in advocating for climate action and promoting adaptation efforts. **Music:** **Singing:** Sing songs that raise awareness about climate change and the importance of adaptation and resilience. Learn lyrics that convey messages of hope and resilience in the face of	empowerment and agency in addressing climate change impacts. Promote mental health and well-being through positive action and community support in climate adaptation efforts. **Financial Literacy:** **Understanding Economic Impacts of Climate Change:** Learn about the economic costs of climate change impacts, such as property damage, crop failures, and healthcare expenses. Understand how climate change affects livelihoods and economic

					environmental challenges. Participate in group singing activities that foster a sense of unity and determination to address climate change. **Playing Instruments:** Learn to play musical instruments that evoke sounds associated with nature and environmental change, such as wind instruments or percussion. Experiment with creating melodies and rhythms that reflect the dynamic nature of climate change	stability, especially in vulnerable communities. Explore opportunities for sustainable economic growth and resilience building in the face of climate change challenges. **Costs and Savings in Climate Adaptation:** Recognise the financial costs associated with climate adaptation measures, such as infrastructure upgrades and disaster preparedness. Understand how investing in climate resilience and adaptation can lead to long-term savings

					and the resilience of communities. Explore musical themes of adaptation and resilience through improvisation and composition. **Listening and Appraising:** Listen to music inspired by climate change and adaptation, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about environmental challenges and promoting resilience and adaptation.	and economic benefits. Explore ways in which individuals and communities can support climate adaptation efforts through sustainable practices and community initiatives.

					Learn to critically evaluate music that advocates for climate action and its impact on listeners. **Composing:** Compose music that reflects themes of climate change adaptation and resilience. Experiment with different musical elements to evoke feelings of hope and determination in the face of environmental challenges. Collaborate with peers to create original compositions that inspire action towards building a more resilient and	

					sustainable future. **Performing:** Perform musical pieces that celebrate the resilience of communities and ecosystems in the face of climate change. Participate in ensemble performances that highlight the importance of adaptation and the need for collective action to address climate challenges. Share musical performances with peers and the community to raise awareness about climate change adaptation efforts and inspire	

					action towards building a more resilient world.	
Food and Agriculture **(SUS8)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Food Sources:** Read and discuss picture books that explore where food comes from, including farms, gardens, and markets, to develop an understanding of food production and	**Number and Place Value:** **Counting Farm Animals:** Count and represent the number of farm animals, such as cows, chickens, and sheep, to develop number	**Working Scientifically:** **Observation Skills:** Develop observation skills by exploring different types of crops and livestock found in local farms or	**Computer Science:** **Coding:** Understand how coding can be used to create educational games or simulations related to food production and agriculture, such as coding a	**Food and Agriculture - History:** **Changes within Living Memory:** Recognise and discuss changes in food production and agriculture	**Art and Design:** **Drawing:** Use drawing to observe and depict various fruits, vegetables, and crops grown in local agriculture. Develop basic drawing skills to	**Personal, Social, Health and Economic Education (PSHE):** **Food Awareness:** Recognize different types of foods and where they come from, such as fruits, vegetables, grains, and meats.

agriculture. **Healthy Eating:** Explore books that promote healthy eating habits and the importance of consuming a balanced diet rich in fruits, vegetables, grains, and proteins for overall health and well-being. **Sustainability in Agriculture:** Engage with literature that introduces concepts of sustainable agriculture, such as organic farming, crop rotation, and reducing food waste, to foster an appreciation for environmentally-friendly food production	sense and understanding of quantity. **Addition and Subtraction:** **Calculating Harvest Yield:** Use addition to calculate the total yield of crops harvested from a field and subtraction to determine the difference in yield between different crops or harvests. **Multiplication and Division:** **Determining Plant Spacing:** Apply multiplication to	gardens. **Investigation:** Conduct investigations to understand the growth requirements of plants and animals used in agriculture, such as experimenting with different soil types or studying the life cycle of a plant. **Data Recording:** Practice recording and analysing data related to food production and agriculture, such as measuring plant growth or tracking changes in animal	virtual farm or a crop growth simulator. **Algorithms:** Explore algorithms for optimising agricultural processes, such as algorithms for irrigation scheduling or for predicting crop yields based on weather data. **Computational Thinking:** Apply computational thinking skills to agricultural scenarios, such as identifying patterns in plant growth or developing solutions to address pest	within their own lifetime and that of their family members, such as changes in farming practices, food availability, or dietary habits. Understand the impact of modern agriculture on the environment, including issues such as soil degradation, pesticide use, and loss of biodiversity. Identify examples of sustainable farming practices and initiatives promoting local food	represent different aspects of food production, such as farming equipment and animals. Explore drawing techniques that convey messages of sustainability and healthy eating practices. **Painting:** Create paintings that celebrate the beauty of agricultural landscapes and the bounty of harvests. Experiment with using colours and textures to represent different types of crops and the changing seasons in	Understand the importance of a balanced diet for overall health and well-being. Identify healthy and unhealthy food choices and their impact on personal health. **Responsible Food Choices:** Develop awareness of where food comes from and the processes involved in food production. Understand the importance of making sustainable and ethical food choices, such as supporting local farmers and choosing organic produce. Identify simple actions to reduce food waste and

practices. **Writing:** **Farm Journals:** Practise descriptive writing by imagining a day on a farm and writing journal entries detailing activities such as planting seeds, caring for animals, and harvesting crops. **Recipe Writing:** Write simple recipes using ingredients commonly grown on farms or in gardens, encouraging creativity and exploration of different foods and flavours. **Food Stories:**	calculate the spacing between rows of crops or plants in a garden, ensuring optimal growth and utilisation of space. **Fractions:** **Partitioning Land for Crops:** Use fractions to partition land into equal parts for planting different crops, understanding concepts of fraction of land used for each crop type. **Measurement:** **Measuring Ingredients for Cooking:**	behaviour. **Science:** **Plants:** Learn about the role of plants in food production, discussing different types of crops and their uses, such as fruits, vegetables, grains, and herbs. **Animals, including humans:** Explore the role of animals in agriculture, such as livestock for meat, dairy, and wool production, and discuss the importance of animal welfare in	infestations. **Information Technology:** **Using Software:** Utilise software tools to research and analyse agricultural data, such as using spreadsheets to track crop yields or using mapping software to plan farm layouts. **Internet Safety:** Learn about internet safety when researching agricultural information online, including understanding how to evaluate	production within their community. **Events beyond Living Memory:** Explore historical events that have shaped food and agriculture, such as the Neolithic Revolution, the development of irrigation systems, or the Green Revolution. Understand how past events have influenced current agricultural practices, including the adoption of	farming. Learn about artists who depict agricultural themes in their paintings and the importance of food in art throughout history. **Sculpture:** Use sculpture to represent elements of food and agriculture through the creation of artworks inspired by fruits, vegetables, and farm animals. Experiment with sculptural techniques and materials to depict the textures and shapes of agricultural	promote food sustainability at home and school. **Community Engagement in Food:** Engage in activities that promote community involvement in food production, such as school gardens or farmers' markets. Understand the importance of sharing and cooperation in food distribution and access. Develop skills in teamwork and collaboration while participating in food-related projects and initiatives. **Citizenship:**

Create narratives that explore the journey of food from farm to table, highlighting the roles of farmers, distributors, and consumers in the food system. **Speaking and Listening:** **Farmers' Market Role-Play:** Role-play visits to a farmers' market, taking on the roles of farmers, vendors, and customers, and engaging in conversations about different types of produce, farming methods, and sustainable practices. **Food Tasting and Discussion:**	Use measurement skills to measure ingredients accurately when cooking or baking, reinforcing concepts of weight and volume. **Geometry:** **Designing Garden Layouts:** Use geometric shapes and concepts to design garden layouts, considering factors such as the shape and size of plots, pathways, and irrigation	farming practices. **Everyday Materials:** Investigate the materials and resources used in agriculture, such as seeds, fertilisers, and farming equipment, and discuss the environmental impact of agricultural practices. **Seasonal Changes:** Observe and discuss seasonal changes in agriculture, such as planting and harvesting seasons, and explore the importance of	sources and protect personal data. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used in agriculture, such as GPS-guided tractors, drones for crop monitoring, or soil sensors, and understand their role in modern farming practices. **Design and Technology:** **Designing:** Design products or solutions that improve food	mechanisation, the use of chemical fertilisers, and the expansion of monoculture farming. Develop an awareness of the historical connections between agriculture, trade, and human civilization. **Significant Historical Figures and Events and Sustainability Activists and Environmentalists:** Learn about historical figures who have played important roles	produce. Create sculptures that raise awareness about the importance of sustainable farming practices and the connection between food and the environment. **Printing:** Use printing techniques to create artwork that communicates messages of food and agriculture, such as images of farm animals, crops, and food preparation. Create prints that celebrate the diversity of foods grown locally and promote the	**Understanding Rights and Responsibilities:** Recognize the right to access safe, nutritious, and affordable food as a basic human right. Understand personal and collective responsibilities in promoting food security and ensuring access to healthy food for all. Explore how individuals can contribute to achieving sustainable development goals related to food and nutrition. **Democracy in Food Systems:**

Conduct taste tests of various fruits, vegetables, and other foods, encouraging students to describe flavours, textures, and preferences while discussing the nutritional benefits of different foods. **Community Garden Presentations:** Give presentations on community gardens or school gardens, discussing the process of growing food, the importance of teamwork and cooperation, and the benefits of gardening for health and the environment. **Food and Agriculture Picture**	systems. **Statistics:** **Analysing Crop Yields:** Collect and analyse statistical data on crop yields over time, identifying trends and patterns in production to make informed decisions about planting and harvesting. **Maths Picture Books to Support:** **"How Did That Get in My Lunchbox?: The Story of Food" by Chris Butterworth**	timing in agricultural activities. **Living Things and their Habitats:** Learn about the habitats and environments suitable for different crops and animals, discussing the concept of sustainable agriculture and biodiversity in farming systems. **Light and Sound:** Explore the role of light and sound in agriculture, such as sunlight for photosynthesis and the use of	production or agricultural practices, such as designing efficient irrigation systems or creating packaging for farm produce. **Making:** Engage in hands-on making activities to create models or prototypes of agricultural tools or systems, such as building a model greenhouse or designing a simple hydroponic setup. **Evaluating:** Evaluate the effectiveness of agricultural solutions,	in shaping agriculture and food systems, such as Norman Borlaug, Vandana Shiva, or Alice Waters. Understand the contributions of these individuals to promoting sustainable agriculture, advocating for organic farming methods, and raising awareness about food justice issues. Explore key historical events related to food and agriculture, such as the development of	importance of supporting local farmers and producers. Experiment with sustainable printing methods and eco-friendly inks to minimise environmental impact. **Textiles:** Create textile artworks that explore themes of food and agriculture through the use of fabric collage or embroidery to depict farming scenes and food preparation. Experiment with textile techniques such as appliqué or quilting to represent	Learn about democratic processes related to food policy and decision-making. Understand the importance of citizen participation in shaping food systems and influencing food-related policies. Recognize the role of individuals in advocating for food justice and equitable access to nutritious food for all members of society. **Law, Justice, and Food Regulation:** Explore laws and regulations related to food safety, labelling, and marketing.

Book Themes: **Farm Life:** Explore books that depict life on a farm, showcasing the daily activities of farmers, the seasons of farming, and the variety of crops and animals found on farms. **Garden Adventures:** Discover stories that follow characters as they plant, tend to, and harvest vegetables, fruits, and herbs in their gardens, inspiring children to connect with nature and explore gardening. **Food Diversity:** Learn about the diversity of foods from around the world, celebrating different cuisines,	This book explores the journey of food from farm to table, providing opportunities for counting, addition, and subtraction as children learn about the various stages of food production and distribution. **"One Grain of Rice: A Mathematical Folktale" by Demi** While not directly focused on agriculture, this book introduces concepts of multiplication and exponential growth through a story about a clever girl who outsmarts a	machinery in farming operations. **Geography:** **Locational Knowledge:** Identify countries, continents, and regions known for specific agricultural products, such as rice in Asia or wine in Europe, and discuss the factors influencing agricultural productivity. **Place Knowledge:** Develop an understanding of local agricultural practices and their connection	considering factors such as productivity, sustainability, and economic viability. **Technical Knowledge:** Gain technical knowledge related to agricultural technologies, such as understanding soil health, plant growth factors, or the principles of sustainable farming practices.	agricultural technologies, the creation of food safety regulations, or the establishment of farmers' markets. **Historical Interpretation:** Develop skills in analysing historical sources related to food and agriculture, such as agricultural journals, historical cookbooks, or farming manuals. Understand that historical interpretations of food and agriculture may	agricultural landscapes and the fruits of the harvest. Learn about sustainable textile practices and consider the environmental impact of food production and consumption. **Collage:** Use collage to create artworks that celebrate the diversity of foods and the process of food production, from farm to table. Experiment with combining different materials and textures to create visually engaging collages that highlight the importance of sustainable	Understand the consequences of food insecurity and malnutrition on individuals and communities. Discuss the role of law enforcement and citizens in upholding food-related laws and promoting food justice for all. **Health and Wellbeing:** **Nutrition and Physical Health:** Understand the importance of eating a variety of foods to obtain essential nutrients for growth and development. Learn about the connection between diet and physical health, including the

cultural traditions, and the importance of food diversity for global health and well-being.	greedy ruler by asking for rice grains doubled each day. **"Eating the Alphabet: Fruits & Vegetables from A to Z" by Lois Ehlert** This alphabet book introduces children to a variety of fruits and vegetables, providing opportunities to discuss measurement (e.g., comparing sizes) and geometry (e.g., identifying shapes).	to the local economy and community, discussing the importance of supporting local food production. **Human and Physical Geography:** Investigate the impact of human activities on agricultural land, such as deforestation, urbanisation, and soil degradation, and discuss sustainable land management practices. **Geographical Skills and Fieldwork:** Develop geographical		vary based on cultural, economic, and social factors. Engage in discussions about different interpretations of historical figures and events related to food and agriculture, fostering critical thinking and empathy towards differing viewpoints.	agriculture. Create collages that inspire viewers to appreciate where their food comes from and the people involved in its production. **Digital Art:** Use digital tools to create artwork that raises awareness about food and agriculture, such as digital illustrations of farming practices and food distribution. Experiment with digital painting, illustration, and animation techniques to depict agricultural themes and the	prevention of diseases such as obesity and diabetes. Explore healthy eating habits and develop skills in food preparation and meal planning. **Emotional Wellbeing and Food:** Develop awareness of the emotional connection to food and eating habits. Understand how food choices can impact mood and emotional well-being. Foster a positive relationship with food and body image through mindful eating practices and

		skills through fieldwork activities focused on agriculture, such as visiting farms or farmer's markets to learn about different crops and farming techniques.			importance of sustainable food systems. Reflect on the role of digital technology in advocating for food security and promoting sustainable agriculture practices. **Music:** **Singing:** Sing songs that celebrate food and agriculture, such as songs about planting seeds, harvesting crops, and sharing meals. Learn lyrics that convey messages of gratitude for food and the importance of	self-care. **Financial Literacy:** **Understanding Food Costs and Budgeting:** Learn about the costs associated with purchasing and preparing food. Understand the concept of budgeting and making informed decisions when buying food. Explore strategies for saving money on food expenses while maintaining a healthy and balanced diet. **Economic Impacts of Food Choices:** Recognize the

					supporting local farmers and producers. Participate in group singing activities that foster a sense of community and appreciation for the bounty of the earth. **Playing Instruments:** Learn to play musical instruments that evoke sounds associated with farming and food production, such as the accordion or the harmonica. Experiment with creating melodies and rhythms inspired by agricultural rhythms, such as	economic implications of food production and distribution, such as employment opportunities and market prices. Understand how food choices can impact local economies and global food markets. Explore ways in which individuals and communities can support sustainable food systems and promote economic resilience through food-related initiatives.

					the cycles of planting and harvesting. Explore musical themes of sustainability and community through improvisation and composition. **Listening and Appraising:** Listen to music inspired by food and agriculture, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about food security and promoting sustainable agriculture	

					practices. Learn to critically evaluate music that advocates for food justice and its impact on listeners. **Composing:** Compose music that reflects themes of food and agriculture, such as songs that celebrate the joys of cooking and sharing meals. Experiment with different musical elements to evoke feelings of gratitude for food and the importance of sustainable farming practices. Collaborate with	

					peers to create original compositions that raise awareness about food security and inspire action towards sustainable agriculture. **Performing:** Perform musical pieces that celebrate food and agriculture, such as songs that honour the hard work of farmers and the bounty of the harvest. Participate in ensemble performances that highlight the importance of supporting local food systems and promoting food justice.	

					Share musical performances with peers and the community to raise awareness about the importance of sustainable agriculture and healthy eating habits.	
Water Conservation **(SUS9)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Water Sources:** Read and discuss	**Number and Place Value:** **Counting Water Usage:**	**Working Scientifically:** **Observation Skills:**	**Computer Science:** **Coding:**	**Water Conservation - History:** **Changes within Living Memory:**	**Art and Design:** **Drawing:** Use drawing to illustrate the importance of water	**Personal, Social, Health and Economic Education (PSHE):** **Water Awareness:**

picture books that explore different sources of water, such as rivers, lakes, oceans, and rain, to develop an understanding of where water comes from and its importance for life. **Water Conservation Stories:** Explore books that feature characters taking actions to conserve water, such as turning off taps when not in use, fixing leaks, and using water responsibly, to instil the importance of water conservation. **Water Cycle:** Engage with literature that explains the water cycle in simple terms, highlighting	Count and represent the number of times water is used in daily activities, such as brushing teeth or watering plants, to develop an understanding of water consumption. **Addition and Subtraction:** **Calculating Water Savings:** Use addition to calculate the total amount of water saved by turning off a dripping tap or fixing a leak, and subtraction to determine the difference in water usage before and after implementing	Develop observation skills by studying the water cycle and identifying sources of water in the local environment. **Investigation:** Conduct investigations to understand the importance of water conservation, such as measuring water usage in everyday activities or experimenting with methods to reduce water wastage. **Data Recording:**	Understand how coding can be used to create simulations or interactive activities that educate about water conservation practices, such as coding a virtual water-saving game or a water usage calculator. **Algorithms:** Explore algorithms for optimising water usage, such as algorithms for scheduling irrigation or for detecting leaks in water systems. **Computational Thinking:**	Recognise and discuss changes in water usage and conservation practices within their own lifetime and that of their family members, such as the implementation of water-saving devices, changes in water availability, or efforts to reduce water consumption. Understand the importance of conserving water resources for environmental sustainability and human	conservation by depicting scenes of water-saving practices, such as turning off taps when not in use. Create drawings that showcase the beauty of water sources, such as rivers, lakes, and oceans, and emphasise the need to protect them. Explore drawing techniques that convey messages of responsible water usage and conservation. **Painting:** Create paintings that highlight the significance of water conservation by depicting landscapes with lush vegetation	Recognize the importance of water as a precious resource for life. Understand where water comes from and the water cycle. Identify everyday uses of water and ways to conserve it at home and school. **Responsibility for Water Conservation:** Develop a sense of responsibility for conserving water resources. Understand the environmental and economic impacts of water waste. Practise simple water-saving habits

concepts such as evaporation, condensation, precipitation, and runoff, to deepen understanding of how water moves through the environment. **Writing:** **Water Saver Pledges:** Write pledges or promises to save water at home, school, or in the community, encouraging students to brainstorm and commit to specific actions they can take to conserve water. **Water Conservation Tips:** Create informational	water-saving measures. **Multiplication and Division:** **Measuring Water Flow:** Apply multiplication to calculate the total volume of water flowing through a tap or hose over a certain period, and division to determine the average flow rate per minute. **Fractions:** **Comparing Water Usage:** Use fractions to compare the amount of water used for different activities, such as bathing, washing	Practice recording and analysing data related to water conservation efforts, such as tracking water usage over time and recording changes in water levels in local rivers or ponds. **Science:** **Plants:** Learn about the role of water in plant growth and photosynthesis, discussing the importance of watering plants responsibly and conserving water in gardening practices. **Animals, including humans:**	Apply computational thinking skills to water conservation scenarios, such as identifying patterns in water usage data or developing solutions to reduce water waste. **Information Technology:** **Using Software:** Utilise software tools to monitor and analyse water usage data, such as using spreadsheets to track water consumption or using water	well-being. Identify examples of water conservation initiatives and water-saving behaviours within their community. **Events beyond Living Memory:** Explore historical events that have influenced water management practices, such as the construction of irrigation systems, the development of water supply infrastructure, or the impact	and clean water bodies. Experiment with using blue hues and watery textures to represent the importance of water in sustaining life. Learn about artists who use painting as a medium to advocate for environmental conservation and stewardship of water resources. **Sculpture:** Use sculpture to represent the importance of water conservation through the creation of artworks that	such as turning off taps when not in use and fixing leaks. **Community Engagement in Water Conservation:** Engage in activities that promote community involvement in water conservation, such as organising water-saving campaigns or participating in clean-up events. Understand the importance of cooperation and teamwork in conserving water resources. Develop skills in communication and collaboration while working towards common water

posters or pamphlets featuring water conservation tips and strategies, using persuasive writing to encourage others to adopt water-saving behaviours. **Water Stories:** Write imaginative stories that incorporate themes of water conservation, where characters face challenges related to water scarcity or pollution and work together to find solutions to protect water resources. **Speaking and Listening:** **Water Conservation Discussions:** Engage in discussions about the importance of	dishes, and watering plants, to identify opportunities for reducing water consumption. **Measurement:** **Measuring Water Usage:** Use measurement skills to estimate and measure the volume of water used in various containers, reinforcing concepts of capacity and volume. **Geometry:** **Designing Water-efficient Gardens:** Use geometric shapes and	Explore the importance of water for animals and humans, discussing the need for clean and safe drinking water and the impact of water pollution on aquatic habitats. **Everyday Materials:** Investigate everyday materials used in water conservation, such as water-saving devices like low-flow faucets and rain barrels, and discuss their effectiveness in reducing water consumption.	usage apps to identify areas for improvement. **Internet Safety:** Learn about internet safety when researching water conservation information online, including understanding how to evaluate sources and protect personal information. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used in water conservation, such as smart water metres,	of droughts and floods. Understand how past events have shaped current water challenges, including water scarcity, pollution, and conflicts over water resources. Develop an awareness of the historical importance of water in human civilization and the need for sustainable water management practices. **Significant Historical Figures and Events and Sustainability**	depict water-saving devices or methods, such as rain barrels or drip irrigation systems. Create sculptures inspired by water-related themes, such as aquatic life or the water cycle, to raise awareness about the interconnectedness of water and ecosystems. Experiment with sculptural techniques and materials that reflect principles of sustainability and environmental stewardship. **Printing:** Use printing techniques to	conservation goals. **Citizenship:** **Understanding Rights and Responsibilities:** Recognize access to clean and safe water as a basic human right. Understand personal and collective responsibilities in protecting and conserving water resources. Explore how individual actions can contribute to global efforts to achieve sustainable development goals related to water conservation. **Democracy in Water**

water conservation, sharing personal experiences, ideas, and strategies for saving water both at home and in the wider community. **Water-themed Role-Play:** Role-play scenarios that involve characters conserving water in various situations, such as during daily routines, outdoor activities, or in emergencies, encouraging dialogue and problem-solving. **Water Conservation Presentations:** Prepare and deliver short presentations on the topic of water conservation,	concepts to design garden layouts that minimise water usage, considering factors such as the shape and size of planting beds, pathways, and irrigation systems. **Statistics:** **Analysing Water Consumption Data:** Collect and analyse statistical data on water consumption over time, identifying trends and patterns to make informed decisions about water conservation strategies.	**Seasonal Changes:** Observe and discuss seasonal changes in water availability, such as fluctuations in rainfall and water levels in rivers and lakes, and explore the importance of water conservation during dry periods. **Living Things and their Habitats:** Learn about the impact of water conservation on aquatic habitats and freshwater ecosystems, discussing the importance of preserving	leak detection sensors, or irrigation controllers, and understand their role in managing water resources. **Design and Technology:** **Designing:** Design products or solutions that promote water conservation, such as designing water-efficient fixtures or creating educational materials to raise awareness about water-saving techniques. **Making:** Engage in hands-on	**Activists and Environmentalists:** Learn about historical figures who have advocated for water conservation and sustainable water management, such as Maude Barlow, Wangari Maathai, or Rajendra Singh. Understand the contributions of these individuals to raising awareness about water issues and promoting water	create artwork that communicates messages of water conservation and responsible water usage. Create prints that depict scenes of water conservation practices, such as watering plants with collected rainwater or using water-efficient appliances. Experiment with sustainable printing methods and eco-friendly inks to minimise environmental impact. **Textiles:** Create textile artworks that raise	**Management:** Learn about democratic processes related to water management and policy-making. Understand the importance of citizen participation in decision-making about water use and allocation. Recognize the role of individuals in advocating for equitable access to water resources and sustainable water management practices. **Law, Justice, and Water Regulation:** Explore laws and regulations related to water conservation and environmental

discussing the significance of water, the impact of human activities on water resources, and the role of individuals in preserving water for future generations. **Water Picture Book Themes:** **Water Wonders:** Explore books that showcase the beauty and importance of water in nature, featuring stunning illustrations of rivers, oceans, waterfalls, and wildlife habitats. **Water Adventures:** Discover stories that follow characters on water-related adventures, such as sailing, fishing, or exploring underwater worlds, inspiring children to appreciate and	**Maths Picture Books to Support:** **"The Magic School Bus at the Waterworks" by Joanna Cole** This book takes children on a journey through the water cycle, providing opportunities to explore concepts of volume, measurement, and water conservation in a fun and engaging way. **"All the Water in the World" by George Ella Lyon** Through poetic language and beautiful illustrations, this	natural water sources for biodiversity. **Light and Sound:** Explore the role of light and sound in water conservation efforts, such as using solar-powered pumps for irrigation and monitoring water quality using sound-based technologies. **Geography:** **Locational Knowledge:** Identify countries, continents, and regions facing water scarcity and discuss the	making activities to create prototypes or models of water-saving devices, such as building a model rainwater harvesting system or designing a drip irrigation system. **Evaluating:** Evaluate the effectiveness of water conservation solutions, considering factors such as water savings, usability, and environmental impact. **Technical Knowledge:** Gain technical	conservation strategies. Explore key historical events related to water conservation, such as the construction of dams and reservoirs, the development of water conservation policies, or the establishment of water management organisations. **Historical Interpretation:** Develop skills in analysing historical sources related to water conservation, such as water management plans,	awareness about water conservation through the depiction of water-related themes, such as aquatic habitats or water-saving technologies. Experiment with textile techniques such as embroidery or appliqué to represent water conservation practices and their importance. Learn about sustainable textile practices and consider the environmental impact of water usage in fabric production and dyeing processes. **Collage:**	protection. Understand the consequences of water pollution and depletion on ecosystems and communities. Discuss the role of law enforcement and citizens in upholding water-related laws and promoting environmental justice for all. **Health and Wellbeing:** **Environmental Health and Access to Clean Water:** Understand the importance of clean and safe water for personal health and hygiene. Learn about the health risks

protect aquatic environments. **Water Conservation Heroes:** Learn about fictional or real-life characters who are passionate about water conservation and take action to protect water sources, serving as role models for young readers to emulate.	book explores the interconnectedness of water on Earth, prompting discussions about the importance of conserving water resources. **"One Well: The Story of Water on Earth" by Rochelle Strauss** This book offers a global perspective on water conservation, highlighting the finite nature of Earth's water supply and the importance of using water wisely. It provides opportunities for discussions about fractions	factors contributing to water shortages, such as climate change and population growth. **Place Knowledge:** Develop an understanding of water sources and distribution in the local area, discussing the importance of protecting and preserving water resources for future generations. **Human and Physical Geography:** Investigate human activities impacting water	knowledge related to water conservation technologies, such as understanding how water-efficient appliances work or how to implement water-saving landscaping techniques.	historical maps, or water usage data. Understand that historical interpretations of water issues may vary based on cultural, political, and economic factors. Engage in discussions about different interpretations of historical figures and events related to water conservation, fostering critical thinking and empathy towards differing viewpoints.	Use collage to create artworks that advocate for water conservation by combining images of water sources, water-saving devices, and messages about responsible water usage. Experiment with combining different materials and textures to create visually impactful collages that highlight the importance of preserving water resources. Create collages that inspire viewers to take action towards conserving water and protecting aquatic ecosystems.	associated with contaminated water sources. Explore ways to promote access to clean water and sanitation for all members of society. **Emotional Wellbeing and Water Conservation:** Develop awareness of emotions related to water scarcity and environmental concerns. Understand the importance of resilience and adaptability in coping with water-related challenges. Foster a sense of empowerment and agency in taking action to conserve water and protect

	(e.g., percentage of Earth's water that is accessible) and statistics (e.g., global water usage trends).	conservation, such as deforestation, pollution, and over-extraction of groundwater, and discuss strategies for sustainable water management. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on water conservation, such as conducting water quality tests in local streams or participating in community clean-up efforts to protect waterways.			**Digital Art:** Use digital tools to create artwork that communicates messages of water conservation and the importance of responsible water usage. Experiment with digital painting, illustration, and animation techniques to depict water-related themes, such as water scarcity or pollution. Reflect on the role of digital technology in advocating for environmental awareness and sustainability, including water	natural resources. **Financial Literacy:** **Understanding Economic Value of Water:** Learn about the economic importance of water for various sectors such as agriculture, industry, and tourism. Understand the concept of water as an economic resource and its value in sustaining livelihoods and economic activities. Explore ways in which water conservation can lead to cost savings and economic benefits for individuals and

					conservation efforts. **Music:** **Singing:** Sing songs that raise awareness about water conservation and the importance of protecting water sources. Learn lyrics that convey messages of responsible water usage and stewardship of aquatic ecosystems. Participate in group singing activities that foster a sense of connection to water and inspire action towards conservation. **Playing**	communities. **Costs and Savings in Water Conservation:** Recognize the financial costs associated with water waste and inefficient water use. Understand how investing in water-saving technologies and practices can lead to long-term savings and economic resilience. Explore opportunities for individuals and communities to reduce water consumption and save money through conservation efforts.

					Instruments: Learn to play musical instruments that evoke sounds associated with water, such as flowing streams or gentle rain. Experiment with percussion instruments to create rhythmic patterns that mimic the sounds of water. Explore melodies and harmonies inspired by water-related themes, such as the tranquillity of a calm lake or the power of a rushing river. **Listening and Appraising:**	

					Listen to music inspired by water and aquatic themes, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about water conservation and promoting stewardship of water resources. Learn to critically evaluate music that advocates for water conservation and its impact on listeners. **Composing:** Compose music that reflects themes of water	

					conservation and the importance of responsible water usage. Experiment with different musical elements to evoke feelings of connection to water and inspire action towards conservation. Collaborate with peers to create original compositions that raise awareness about water conservation and inspire stewardship of water resources. **Performing:** Perform musical pieces that celebrate the beauty of water and advocate for	

					its conservation. Participate in ensemble performances that highlight the importance of protecting water sources and preserving aquatic ecosystems. Share musical performances with peers and the community to raise awareness about water conservation efforts and inspire action towards stewardship.	
Sustainable Transport and Urban Planning **(SUS10)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and**

						Economic Education (PSHE) **Citizenship**
Reading: **Transportation Books:** Read and discuss picture books that feature various modes of sustainable transportation, such as bicycles, public transportation, and walking, to introduce children to alternative ways of getting around. **Urban Planning Stories:** Explore literature that showcases urban planning concepts, such as creating	**Number and Place Value:** **Counting Vehicles:** Count and represent the number of different types of vehicles (e.g., cars, buses, bicycles) observed in the local area to develop an understanding of transportation modes. **Addition and Subtraction:** **Calculating Travel**	**Working Scientifically:** **Observation Skills:** Develop observation skills by identifying different modes of transportation in the local area and studying traffic patterns. **Investigation:** Conduct investigations to understand the environmental impact of transportation, such as	**Computer Science:** **Coding:** Understand how coding can be used to create simulations or games that educate about sustainable transportation options, such as coding a virtual bike-sharing system or a public transportation planner. **Algorithms:** Explore	**Sustainable Transport and Urban Planning - History:** **Changes within Living Memory:** Recognise and discuss changes in transportation and urban planning within their own lifetime and that of their family members, such as the introduction of bike lanes, pedestrian-frie ndly streets, or	**Art and Design:** **Drawing:** Use drawing to depict various modes of sustainable transportation, such as bicycles, electric cars, and public transportation. Develop basic drawing skills to illustrate urban planning concepts, such as pedestrian-friendly streets and bike lanes. Explore drawing techniques that convey messages	**Personal, Social, Health and Economic Education (PSHE):** **Transport Awareness:** Recognize different modes of transport such as walking, cycling, cars, buses, and trains. Understand the importance of sustainable transport for reducing pollution and promoting physical activity. Identify personal experiences with different modes of transport and their

pedestrian-friendly streets, designing green spaces, and reducing air pollution, to foster an understanding of how cities can be designed for sustainability. **Community Engagement Tales:** Engage with stories that highlight community efforts to improve transportation systems and urban environments, encouraging children to learn about local initiatives and participate in discussions about their own neighbourhoods. **Writing:** **Transportation**	**Distances:** Use addition to calculate the total distance travelled by different modes of transportation (e.g., walking, cycling, driving) for short journeys within the local area. **Multiplication and Division:** **Estimating Fuel Consumption:** Apply multiplication to estimate the total amount of fuel consumed by vehicles over a certain period, and division to determine the average fuel consumption per	measuring air pollution levels near busy roads or studying noise pollution from vehicles. **Data Recording:** Practice recording and analysing data related to sustainable transport options, such as tracking the number of cyclists or pedestrians using specific routes. **Science:** **Plants:** Learn about the role of green spaces and vegetation in urban areas, discussing the	algorithms for optimising transportation routes or for analysing traffic patterns to reduce congestion and emissions. **Computational Thinking:** Apply computational thinking skills to urban planning scenarios, such as identifying transportation needs in a community or developing solutions to improve pedestrian safety. **Information Technology:** **Using**	public transportation improvements. Understand the impact of transportation choices and urban design on the environment, health, and quality of life. Identify examples of sustainable transportation options and urban planning initiatives within their community. **Events beyond Living Memory:** Explore historical events that have	of environmental sustainability and community connectivity. **Painting:** Create paintings that showcase sustainable urban landscapes, including green spaces, pedestrian-friendly streetscapes, and energy-efficient buildings. Experiment with using colours and textures to represent different aspects of sustainable transport and urban planning. Learn about artists who depict urban environments in their paintings and	impact on the environment and well-being. **Responsible Travel Choices:** Develop awareness of the environmental and health benefits of using sustainable modes of transport. Understand the impact of car use on air quality and climate change. Practice making informed choices about how to travel, considering factors such as distance, time, and environmental impact. **Community Engagement in Sustainable Transport:**

Journals: Keep journals or diaries to record observations and reflections on transportation experiences, including walks, bike rides, or rides on public transportation, encouraging descriptive writing and critical thinking about sustainable travel choices. **Urban Planning Proposals:** Write proposals for sustainable urban development projects, such as creating bike lanes, planting community gardens, or improving public transit accessibility, using persuasive writing to advocate for positive changes	journey. **Fractions:** **Comparing Travel Times:** Use fractions to compare the time taken to travel different distances by various modes of transportation, considering factors such as speed and efficiency. **Measurement:** **Measuring Traffic Flow:** Use measurement skills to estimate and measure the flow of traffic along roads,	benefits of trees and plants for air quality and temperature regulation. **Animals, including humans:** Explore the impact of transportation on wildlife habitats and migration routes, discussing ways to reduce the negative effects of roads and highways on animal populations. **Everyday Materials:** Investigate materials used in sustainable transport options,	**Software:** Utilise software tools to analyse transportation data, such as using mapping software to plan bike lanes or using traffic simulation software to test road designs. **Internet Safety:** Learn about internet safety when researching transportation and urban planning information online, including understanding how to evaluate sources and protect personal data. **Digital Literacy:** **Understanding**	influenced transportation and urban development, such as the construction of railways, the invention of the automobile, or the expansion of cities. Understand how past events have shaped current transportation and urban challenges, including traffic congestion, air pollution, and urban sprawl. Develop an awareness of the historical connections between transportation, urbanisation, and societal	the importance of sustainable development in art. **Sculpture:** Use sculpture to represent elements of sustainable transport and urban planning through the creation of artworks inspired by alternative transportation methods and eco-friendly infrastructure. Experiment with sculptural techniques and materials to depict the forms and functions of sustainable urban spaces. Create sculptures	Engage in activities that promote community involvement in sustainable transport initiatives, such as walking or cycling events. Understand the importance of collaboration and teamwork in promoting sustainable transport options. Develop skills in communication and advocacy while working towards common goals of improving local transport systems. **Citizenship:** **Understanding Rights and Responsibilities:** Recognize the right

in local communities. **Transportation Stories:** Craft imaginative stories that feature characters exploring sustainable transportation options, embarking on eco-friendly journeys, and working together to solve transportation-related challenges in their communities. **Speaking and Listening:** **Transportation Discussions:** Engage in discussions about the benefits of sustainable transportation, sharing ideas for	sidewalks, and bike lanes, reinforcing concepts of distance, speed, and capacity. **Geometry:** **Designing Urban Spaces:** Use geometric shapes and concepts to design and plan urban spaces, including streets, intersections, and public transportation routes, considering factors such as efficiency and safety. **Statistics:** **Analysing Transport Data:**	such as bicycles and public transportation vehicles, and discuss the importance of eco-friendly materials in reducing environmental impact. **Seasonal Changes:** Observe and discuss seasonal changes in transportation patterns, such as increased traffic during holidays or fluctuations in public transit ridership due to weather conditions. **Living Things and their Habitats:** Learn about the	**Digital Devices:** Identify digital devices used in transportation and urban planning, such as GPS navigation systems, traffic sensors, or smart traffic lights, and understand their role in improving mobility and safety. **Design and Technology:** **Designing:** Design products or solutions that promote sustainable transportation, such as designing bike racks or creating	change. **Significant Historical Figures and Events and Sustainability Activists and Environmentalists:** Learn about historical figures who have advocated for sustainable transportation and urban planning, such as Janette Sadik-Khan, Jane Jacobs, or Enrique Peñalosa. Understand the contributions of these individuals to promoting walkable cities,	that raise awareness about the importance of sustainable transportation and urban design in creating livable communities. **Printing:** Use printing techniques to create artwork that communicates messages of sustainable transport and urban planning, such as images of green cities and eco-friendly transportation options. Create prints that depict scenes of walkable neighbourhoods, bike-sharing programs, and	to access safe, affordable, and sustainable transport options for all members of society. Understand personal and collective responsibilities in advocating for sustainable transport policies and infrastructure. Explore how individual actions can contribute to global efforts to achieve sustainable development goals related to transport and urban planning. **Democracy in Transport Decision-Making:** Learn about democratic processes related to

reducing car dependence, promoting active travel, and creating greener, more livable cities for everyone. **Urban Planning Debates:** Participate in debates on urban planning topics, such as the merits of car-free zones, the importance of green spaces in cities, and strategies for reducing traffic congestion and air pollution. **Community Presentations:** Prepare and deliver presentations on sustainable transportation and urban planning topics, discussing	Collect and analyse statistical data on transportation modes and traffic patterns, identifying trends and patterns to inform urban planning decisions. **Maths Picture Books to Support:** **"The Great Petrol Station Robbery" by Edward Horswell** This book introduces concepts of addition and subtraction in the context of calculating fuel consumption and costs, providing opportunities for	relationship between urban development and habitat loss, discussing the importance of preserving green spaces and wildlife corridors in urban planning. **Light and Sound:** Explore the effects of transportation on light and sound pollution in urban environments, discussing strategies for minimising disturbances to residents and wildlife. **Geography:** **Locational Knowledge:**	pedestrian-friendly street designs. **Making:** Engage in hands-on making activities to create models or prototypes of transportation infrastructure, such as building a model bike lane or designing a pedestrian crosswalk. **Evaluating:** Evaluate the effectiveness of transportation and urban planning solutions, considering factors such as accessibility, safety, and	public transportation, and green infrastructure. Explore key historical events related to transportation and urban planning, such as the creation of urban parks, the implementation of zoning regulations, or the development of public transit systems. **Historical Interpretation:** Develop skills in analysing historical sources related to transportation	renewable energy sources in urban environments. Experiment with sustainable printing methods and eco-friendly inks to minimise environmental impact. **Textiles:** Create textile artworks that raise awareness about sustainable transport and urban planning through the use of fabric collage or embroidery to depict eco-friendly transportation modes and urban green spaces. Experiment with textile techniques such as appliqué or quilting to	transport policy and urban planning. Understand the importance of citizen participation in decision-making about transport infrastructure and public transportation services. Recognize the role of individuals in advocating for inclusive and accessible transport options for all members of society. **Law, Justice, and Sustainable Transport:** Explore laws and regulations related to sustainable transport, such as vehicle emissions standards and pedestrian safety

the importance of environmentally friendly transportation options and proposing ideas for improving local communities. **Transportation and Urban Planning Picture Book Themes:** **City Adventures:** Explore books that depict characters navigating cities using sustainable modes of transportation, such as walking, biking, or using public transit, showcasing the excitement and possibilities of urban exploration without cars. **Urban Green Spaces:** Discover stories that celebrate the beauty and	discussions about sustainable transportation alternatives. **"A Street Through Time" by Anne Millard** Through detailed illustrations and timelines, this book traces the evolution of urban streets and transportation systems over time, encouraging children to explore concepts of measurement, geometry, and urban planning. **"On the Town: A Community Adventure" by Judith Caseley** This book follows a diverse group of characters as	Identify countries, continents, and regions known for sustainable transportation initiatives, such as bike-friendly cities or efficient public transit systems. **Place Knowledge:** Develop an understanding of local transportation infrastructure and services, discussing the benefits of walking, cycling, and using public transit for reducing congestion and pollution. **Human and**	environmental impact. **Technical Knowledge:** Gain technical knowledge related to transportation technologies, such as understanding how traffic signals work or how electric vehicles operate, and urban planning principles, such as zoning and land use regulations.	and urban planning, such as city maps, transportation plans, or historical photographs. Understand that historical interpretations of transportation and urban development may vary based on cultural, economic, and social factors. Engage in discussions about different interpretations of historical figures and events related to sustainable transport and urban planning, fostering	represent sustainable urban infrastructure and community engagement. Learn about sustainable textile practices and consider the environmental impact of transportation and urban development on fabric production and consumption. **Collage:** Use collage to create artworks that celebrate sustainable transport and urban planning by combining images of alternative transportation methods, green spaces, and community	regulations. Understand the consequences of unsustainable transport practices on public health, air quality, and road safety. Discuss the role of law enforcement and citizens in upholding transport-related laws and promoting environmental justice for all. **Health and Wellbeing:** **Physical Health and Active Travel:** Understand the health benefits of walking and cycling for physical fitness and well-being. Learn about the

importance of parks, gardens, and green rooftops in urban environments, highlighting the role of nature in promoting health, well-being, and sustainability in cities. **Transportation Innovations:** Learn about innovative transportation solutions and urban planning projects from around the world through engaging picture books, inspiring children to think creatively about the future of transportation and city design.	they navigate their neighbourhood by various modes of transportation, offering opportunities to discuss travel distances, time, and the importance of sustainable transport choices.	**Physical Geography:** Investigate the impact of urbanisation on land use and transportation planning, discussing the importance of mixed-use development and compact city design for sustainable communities. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on sustainable transport and		critical thinking and empathy towards differing viewpoints.	gathering places. Experiment with combining different materials and textures to create visually engaging collages that highlight the importance of sustainable living in urban environments. Create collages that inspire viewers to advocate for sustainable transportation and urban planning initiatives in their communities. **Digital Art:** Use digital tools to create artwork that raises awareness about sustainable transport and	risks of sedentary lifestyles associated with car dependency. Explore ways to promote active travel habits and incorporate physical activity into daily routines. **Emotional Wellbeing and Sustainable Transport:** Develop awareness of emotions related to transport choices and experiences, such as stress from traffic congestion or enjoyment from walking in nature. Understand the importance of feeling safe and comfortable while travelling.

		urban planning, such as mapping out walking routes or conducting surveys on transportation preferences.			urban planning, such as digital illustrations of green cities and smart transportation systems. Experiment with digital painting, illustration, and animation techniques to depict urban sustainability themes and the importance of eco-friendly transportation options. Reflect on the role of digital technology in advocating for sustainable urban development and promoting community engagement. **Music:**	Foster positive attitudes towards sustainable transport options and their contribution to personal and community well-being. **Financial Literacy:** **Understanding Economic Costs of Transport:** Learn about the economic costs associated with car ownership, fuel expenses, and road congestion. Understand the concept of externalities and how they impact the true cost of different transport modes on society. Explore ways in

					Singing: Sing songs that celebrate sustainable transportation and urban planning, such as songs about walking, biking, and using public transportation. Learn lyrics that convey messages of environmental stewardship and community connectivity in urban environments. Participate in group singing activities that foster a sense of responsibility for sustainable living and transportation choices. **Playing Instruments:**	which sustainable transport options can lead to cost savings for individuals and communities. **Costs and Savings in Sustainable Transport:** Recognize the financial benefits of using sustainable modes of transport, such as saving money on fuel and parking fees. Understand how investing in public transportation infrastructure and active travel infrastructure can lead to long-term savings for communities. Explore opportunities for individuals and communities to

					Learn to play musical instruments that evoke sounds associated with urban environments and sustainable transportation modes, such as percussion instruments or wind instruments. Experiment with creating melodies and rhythms inspired by the sounds of city life and eco-friendly transportation options. Explore musical themes of sustainability and community connectivity through improvisation and	support sustainable transport options through financial incentives and policy advocacy.

					composition. **Listening and Appraising:** Listen to music inspired by sustainable transport and urban planning, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about sustainable living and promoting environmentally friendly transportation choices. Learn to critically evaluate music that advocates for sustainable urban development and its impact on	

					listeners. **Composing:** Compose music that reflects themes of sustainable transport and urban planning, such as songs that celebrate the benefits of walking and biking in urban environments. Experiment with different musical elements to evoke feelings of community and connectivity in sustainable cities. Collaborate with peers to create original compositions that raise awareness about sustainable transportation	

					options and promote urban sustainability. **Performing:** Perform musical pieces that celebrate sustainable transport and urban planning, such as songs that highlight the importance of pedestrian-friendly streets and public transportation. Participate in ensemble performances that promote sustainable living and transportation choices in urban environments. Share musical performances with peers and the community to	

					raise awareness about the importance of sustainable transport and urban planning initiatives.	
Citizenship / Global Responsibility and Sustainable Development **(SUS11)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Citizenship Stories:** Read and discuss picture books that introduce concepts of citizenship, community	**Number and Place Value:** **Counting Sustainable Actions:** Count and represent the	**Working Scientifically:** **Observation Skills:** Develop observation skills by identifying	**Computer Science:** **Coding:** Understand how coding can be used to develop educational	**Citizenship, Global Responsibility , and SDGs - History:** **Changes within Living Memory:**	**Art and Design:** **Drawing:** Use drawing to depict global sustainability issues, such as climate change, pollution, and	**Personal, Social, Health and Economic Education (PSHE):** **Global Citizenship Awareness:** Recognize the concept of global

involvement, and global responsibility, featuring characters who demonstrate acts of kindness, cooperation, and civic engagement. **Global Issues Books:** Explore literature that addresses global challenges such as poverty, hunger, and climate change, exposing children to the idea of global citizenship and encouraging empathy and understanding of diverse perspectives. **SDGs Exploration:** Investigate picture books that highlight the United Nations Sustainable Development Goals (SDGs), discussing	number of sustainable actions taken by individuals or groups (e.g., recycling, saving energy) to develop an understanding of global citizenship and responsibility. **Addition and Subtraction:** **Calculating Resource Usage:** Use addition and subtraction to calculate the total amount of resources consumed or saved through sustainable practices, such as water conservation or energy efficiency	global issues affecting plants, animals, and habitats, such as deforestation, pollution, and climate change. **Investigation:** Conduct investigations to understand the interconnectedness of human activities and environmental challenges, such as exploring the impact of plastic pollution on marine life. **Data Recording:** Practice recording and analysing data related to sustainable development	games or simulations that raise awareness about global issues, citizenship, and the Sustainable Development Goals (SDGs). **Algorithms:** Explore algorithms for analysing social data and identifying patterns related to citizenship and global responsibility, such as algorithms for tracking community involvement or for promoting digital citizenship. **Computational Thinking:**	Recognize and discuss changes in global citizenship and responsibility within their own lifetime and that of their family members, such as increasing awareness of global issues, participation in community service projects, or engagement with multicultural communities. Understand the importance of being an active global citizen and taking responsibility for promoting positive change in the	endangered species. Develop basic drawing skills to illustrate actions individuals can take to promote sustainability and protect the environment. Explore drawing techniques that convey messages of global responsibility and citizenship. **Painting:** Create paintings that raise awareness about global sustainability challenges and the importance of collective action. Experiment with using colours and	citizenship and the interconnectedness of people and communities around the world. Understand the importance of taking responsibility for global issues such as poverty, inequality, and environmental sustainability. Identify personal connections to global challenges and opportunities for positive action. **Caring for the Environment:** Develop awareness of environmental issues such as climate change, pollution, and habitat destruction. Understand the

each goal and its significance in addressing global issues, fostering awareness of the interconnectedness of global challenges and the importance of collective action. **Writing:** **Citizenship Reflections:** Write reflective pieces on what it means to be a responsible citizen, discussing ways individuals can contribute to their communities and make a positive impact on the world around them. **Global Responsibility Letters:**	measures. **Multiplication and Division:** **Budgeting for Sustainable Projects:** Apply multiplication and division to create budgets for sustainable projects or initiatives aimed at addressing global challenges, such as hunger or poverty alleviation. **Fractions:** **Fraction of Sustainable Resources:** Use fractions to	goals (SDGs), such as tracking changes in biodiversity or monitoring energy consumption in the local community. **Science:** **Plants:** Learn about the importance of plants for global biodiversity and sustainable development, discussing the role of forests in carbon sequestration and soil conservation. **Animals, including humans:** Explore the	Apply computational thinking skills to social and global issues, such as identifying ways technology can be used to address humanitarian challenges or promoting ethical behaviour online. **Information Technology:** **Using Software:** Utilise software tools to research global issues and SDGs, such as using multimedia resources to learn about sustainable development or	world. Identify examples of actions taken to address global challenges within their community, such as fundraising for international aid organisations or participating in cultural exchange programs. **Events beyond Living Memory:** Explore historical events that have shaped global citizenship and responsibility, such as the	textures to represent environmental degradation and conservation efforts worldwide. Learn about artists who use painting to advocate for sustainable practices and inspire positive change. **Sculpture:** Use sculpture to represent elements of global sustainability through the creation of artworks inspired by environmental themes and the interconnectednes s of ecosystems. Experiment with sculptural	importance of protecting natural resources and biodiversity for current and future generations. Identify simple actions to promote environmental sustainability in daily life, such as reducing waste and conserving energy. **Promoting Social Justice:** Learn about social justice issues such as poverty, discrimination, and human rights violations. Understand the importance of fairness, equality, and respect for diversity in building a just and inclusive

Compose letters to fictional or real-world leaders, advocating for specific causes related to the SDGs or expressing concerns about global issues, developing persuasive writing skills and encouraging civic engagement. **SDG Action Plans:** Create action plans outlining steps to address one or more SDGs at the local or global level, emphasising the importance of taking concrete actions to promote sustainability and social justice. **Speaking and Listening:** **Citizenship**	represent and compare the proportion of resources used sustainably (e.g., renewable energy sources) compared to non-sustainable resources, fostering an understanding of responsible resource management. **Measurement:** **Measuring Environmental Impact:** Use measurement skills to quantify the environmental impact of various activities (e.g., carbon footprint,	concept of global citizenship by discussing human responsibilities towards animals and ecosystems, such as protecting endangered species and promoting animal welfare. **Everyday Materials:** Investigate the environmental impact of everyday materials and consumer choices, discussing strategies for reducing waste and promoting sustainable consumption. **Seasonal**	using online platforms to collaborate on community projects. **Internet Safety:** Learn about internet safety in the context of global citizenship, including understanding how to interact responsibly with others online and how to protect personal information. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices and online platforms used for global	establishment of international organisations like the United Nations, global movements for human rights and social justice, or historical events that have promoted global cooperation and understanding. Understand how past events have influenced current global challenges, including poverty, inequality, conflict, and environmental degradation. Develop an awareness of the historical	techniques and materials to depict the impact of human activity on the planet and the need for sustainable solutions. Create sculptures that inspire empathy and action towards addressing global sustainability challenges. **Printing:** Use printing techniques to create artwork that communicates messages of global sustainability and responsibility, such as images of renewable energy sources, wildlife conservation, and cultural diversity.	society. Explore ways to support social justice initiatives and advocate for the rights of marginalised and vulnerable groups. **Citizenship:** **Understanding Global Responsibilities:** Recognize the role of individuals and communities in addressing global challenges and promoting sustainable development. Understand personal and collective responsibilities in contributing to a more just, equitable, and sustainable

Discussions: Engage in discussions about rights, responsibilities, and active citizenship, exploring topics such as community service, voting, and standing up for equality and justice. **Global Responsibility Dialogues:** Hold dialogues on global issues and the role of individuals and communities in addressing them, fostering critical thinking, empathy, and a sense of global interconnectedness. **SDG Presentations:** Prepare and deliver presentations on	waste generation) and explore ways to reduce or mitigate these impacts. **Geometry:** **Designing Sustainable Structures:** Use geometric shapes and concepts to design and plan sustainable structures or spaces that align with principles of environmental responsibility and resilience. **Statistics:** **Analysing Global Data:**	**Changes:** Discuss the impact of seasonal changes on communities around the world, exploring how climate variability affects food security, water availability, and livelihoods. **Living Things and their Habitats:** Learn about the interconnectedness of ecosystems and human well-being, discussing the importance of preserving natural habitats and biodiversity for future	collaboration and advocacy, such as social media platforms, online forums, or virtual meeting tools, and understand their role in promoting global citizenship. **Design and Technology:** **Designing:** Design digital or physical products that promote awareness of global issues and encourage active citizenship, such as designing educational apps for creating posters advocating for	context of global issues and the interconnectedness of societies around the world. **Significant Historical Figures and Events and Sustainability Activists and Environmentalists:** Learn about historical figures who have advocated for global responsibility and sustainability, such as Mahatma Gandhi, Nelson Mandela, or	Create prints that depict scenes of collaboration and cooperation among people from different countries and backgrounds to address sustainability issues. Experiment with sustainable printing methods and eco-friendly inks to promote environmental stewardship. **Textiles:** Create textile artworks that raise awareness about global sustainability through the use of fabric collage or embroidery to depict environmental	world. Explore how individual actions can contribute to achieving sustainable development goals and making a positive impact on society. **Democratic Participation in Decision-Making:** Learn about democratic processes at local, national, and global levels. Understand the importance of citizen participation in decision-making about issues that affect their lives and communities. Recognise the value of listening to

specific SDGs, discussing their significance, challenges, and potential solutions, promoting communication skills and raising awareness of global issues. **Citizenship and Global Responsibility Picture Book Themes:** **Community Heroes:** Discover stories that feature individuals or groups making a difference in their communities through acts of kindness, leadership, and civic engagement, inspiring children to become active citizens. **Global**	Collect and analyse statistical data related to global issues addressed by the SDGs (e.g., poverty rates, access to clean water), facilitating discussions about global citizenship and the importance of collective action. **Maths Picture Books to Support:** **"One Plastic Bag: Isatou Ceesay and the Recycling Women of the Gambia" by Miranda Paul** This book introduces concepts of addition, subtraction, and	generations. **Light and Sound:** Explore the concept of environmental justice by discussing how light and sound pollution disproportionately affect marginalised communities, and explore solutions for creating more equitable and sustainable environments. **Geography:** **Locational Knowledge:** Identify countries and regions affected by global challenges such as poverty,	the SDGs. **Making:** Engage in hands-on making activities to create projects that address global challenges, such as organising a community cleanup or creating artwork that raises awareness about environmental conservation. **Evaluating:** Evaluate the impact of digital tools and technology-based initiatives on promoting global citizenship and achieving SDGs,	Malala Yousafzai. Understand the contributions of these individuals to promoting peace, justice, equality, and environmental stewardship on a global scale. Explore key historical events related to global citizenship and responsibility, such as the end of colonialism, the civil rights movement, or the adoption of international treaties and agreements. **Historical Interpretation:**	themes and cultural diversity. Experiment with textile techniques such as appliqué or quilting to represent sustainable practices and the interconnectedness of global communities. Learn about sustainable textile practices and consider the environmental and social impacts of textile production and consumption worldwide. **Collage:** Use collage to create artworks that celebrate global sustainability and responsibility by	diverse perspectives and working together to find solutions to complex problems. **Respecting Rights and Responsibilities:** Understand the importance of human rights, democracy, and the rule of law in promoting a just and inclusive society. Recognize personal rights and responsibilities as members of a community and global citizens. Explore the concept of ethical behaviour and the importance of treating others with kindness, fairness, and

Connections: Explore books that celebrate cultural diversity, promote empathy, and highlight the interconnectedness of people around the world, fostering understanding and appreciation of different perspectives and cultures. **SDG Stories:** Read picture books that directly address the SDGs, showcasing inspiring examples of projects and initiatives aimed at achieving sustainable development goals, empowering children to become agents of positive change in their communities and beyond.	measurement in the context of recycling efforts in The Gambia, inspiring discussions about responsible resource management and environmental stewardship. **"The Water Princess" by Susan Verde** Through storytelling, this book explores themes of water conservation and access to clean water, providing opportunities to discuss fractions and measurement while addressing global issues related to sustainable	inequality, and environmental degradation, discussing the role of global citizenship in addressing these issues. **Place Knowledge:** Develop an understanding of the interconnectedne ss of local and global issues, discussing how individual actions can contribute to achieving SDGs both locally and globally. **Human and Physical Geography:** Investigate the	considering factors such as reach, engagement, and effectiveness. **Technical Knowledge:** Gain technical knowledge related to digital citizenship, online safety, and the use of technology for social good, such as understanding privacy settings, evaluating online sources, and using digital platforms for advocacy and activism.	Develop skills in analysing historical sources related to global citizenship and responsibility, such as speeches, letters, or historical documents from international organisations. Understand that historical interpretations of global issues may vary based on cultural, political, and ideological perspectives. Engage in discussions about different interpretations	combining images of environmental conservation, cultural diversity, and social justice. Experiment with combining different materials and textures to create visually engaging collages that highlight the interconnectednes s of people and the planet. Create collages that inspire viewers to take action towards building a more sustainable and equitable world for all. **Digital Art:** Use digital tools to create artwork that raises awareness about	respect. **Health and Wellbeing:** **Promoting Wellbeing for All:** Understand the importance of health and wellbeing for individuals, communities, and societies. Learn about factors that influence health and wellbeing, including access to healthcare, clean water, education, and economic opportunities. Explore ways to promote physical, mental, and emotional wellbeing for oneself and others. **Addressing Global**

	development. **"If the World Were a Village: A Book about the World's People" by David J. Smith** This book uses statistics and comparative data to present global issues in an accessible way for young learners, fostering discussions about global citizenship, diversity, and equity while reinforcing key mathematical concepts.	social, economic, and environmental dimensions of global challenges, discussing the need for sustainable development strategies that balance human needs with environmental conservation. **Geographical Skills and Fieldwork:** Develop geographical skills through fieldwork activities focused on global citizenship and sustainable development, such as mapping out local resources and identifying		of historical figures and events related to global responsibility, fostering critical thinking and empathy towards differing viewpoints.	global sustainability issues and promotes responsible citizenship and action. Experiment with digital painting, illustration, and animation techniques to depict environmental themes and the interconnectedness of global communities. Reflect on the role of digital technology in advocating for sustainable development and promoting global citizenship. **Music:** **Singing:**	**Health Challenges:** Learn about global health issues such as infectious diseases, malnutrition, and access to healthcare. Understand the interconnectedness of health and development, and the importance of addressing social determinants of health. Explore ways to support global health initiatives and promote access to healthcare for all people. **Financial Literacy:** **Understanding Economic Development:**

		opportunities for community action.			Sing songs that celebrate global sustainability and responsibility, such as songs about protecting the planet, preserving biodiversity, and promoting social justice. Learn lyrics that convey messages of unity, empathy, and collective action in addressing global challenges. Participate in group singing activities that foster a sense of global citizenship and responsibility. **Playing Instruments:**	Learn about the concept of sustainable development and its three pillars: economic, social, and environmental. Understand the importance of balancing economic growth with social equity and environmental protection. Explore ways in which individuals and communities can contribute to sustainable economic development and poverty reduction. **Promoting Financial Inclusion:** Learn about

					Learn to play musical instruments that evoke sounds associated with environmental themes and cultural diversity, such as traditional instruments from different parts of the world. Experiment with creating melodies and rhythms inspired by global sustainability issues and the resilience of communities facing environmental challenges. Explore musical themes of empathy and cooperation through improvisation and composition.	financial literacy and the importance of managing money responsibly. Understand the barriers to financial inclusion, such as poverty, lack of access to banking services, and gender inequality. Explore ways to promote financial inclusion and economic empowerment for all members of society.

					Listening and Appraising: Listen to music from around the world that addresses global sustainability and responsibility, and discuss the emotions and messages conveyed. Appreciate the role of music in raising awareness about global challenges and promoting empathy and understanding across cultures. Learn to critically evaluate music that advocates for social and environmental justice and its impact on	

					listeners. **Composing:** Compose music that reflects themes of global sustainability and responsibility, such as songs that celebrate cultural diversity, environmental conservation, and social equity. Experiment with different musical elements to evoke feelings of empathy, hope, and determination in addressing global challenges. Collaborate with peers to create original compositions that raise awareness about global sustainability	

					issues and inspire action towards positive change. **Performing:** Perform musical pieces that celebrate global sustainability and responsibility, such as songs that promote environmental conservation and social justice. Participate in ensemble performances that highlight the importance of cooperation and collaboration in addressing global challenges. Share musical performances with peers and the community to raise awareness	

					about global sustainability issues and promote a sense of global citizenship and responsibility.	
Outdoor Learning and Connection to Nature **(SUS12)**						
English	**Mathematics**	**Science and Geography**	**Computing/ Design and Technology**	**History**	**Art and Design/Music**	**Personal, Social, Health and Economic Education (PSHE)** **Citizenship**
Reading: **Nature Exploration Stories:** Read and discuss picture books that depict outdoor adventures, nature exploration, and	**Number and Place Value:** **Counting Natural Objects:** Count and group natural objects (e.g., leaves, stones, flowers)	**Working Scientifically:** **Observation Skills:** Develop observation skills by exploring outdoor	**Computer Science:** **Coding:** Understand how coding can be used to develop interactive nature	**Outdoor Learning and Connectedness to Nature - History and National Parks:** **Changes within Living Memory:**	**Art and Design:** **Drawing:** Use drawing to observe and depict elements of nature, such as plants, animals, and landscapes, during outdoor	**Personal, Social, Health and Economic Education (PSHE):** **Outdoor Exploration and Discovery:** Develop curiosity and a sense of

encounters with wildlife, fostering a sense of wonder and appreciation for the natural world. **Environmental Conservation Tales:** Explore literature that addresses environmental conservation and sustainability, featuring stories of characters working to protect and preserve nature, promoting environmental awareness and stewardship. **Outdoor Learning Journals:** Encourage students to keep nature journals where they can record	found during outdoor activities to develop number recognition and understanding of place value. **Addition and Subtraction:** **Calculating Nature Walk Distances:** Use addition and subtraction to calculate distances walked during nature hikes or outdoor exploration, reinforcing arithmetic skills while engaging with the natural environment. **Multiplication and Division:**	environments and identifying plants, animals, and habitats in their natural surroundings. **Investigation:** Conduct investigations to understand the interconnectedness of living organisms and their environments, such as studying the relationships between pollinators and flowering plants. **Data Recording:** Practice recording and analysing data collected during outdoor fieldwork, such as	exploration tools or digital field guides that encourage outdoor learning experiences. **Algorithms:** Explore algorithms for analysing environmental data collected during outdoor activities, such as algorithms for identifying plant species or for tracking animal behaviour. **Computational Thinking:** Apply computational thinking skills to outdoor learning scenarios, such as identifying	Recognise and discuss changes in outdoor experiences and nature connection within their own lifetime and that of their family members, such as changes in outdoor play habits, access to green spaces, or interaction with wildlife. Understand the importance of spending time outdoors for physical and mental well-being. Identify examples of outdoor	learning activities. Develop basic drawing skills to represent different natural forms and textures accurately. Explore drawing techniques that convey the beauty and diversity of the natural world. **Painting:** Create paintings inspired by outdoor experiences, capturing the colours and mood of the environment. Experiment with using colours and brushstrokes to evoke the sensations and emotions experienced in	wonder about the natural world. Engage in hands-on exploration and discovery activities in outdoor environments. Foster a love for nature through sensory experiences, such as observing wildlife, listening to bird songs, and feeling different textures. **Emotional Wellbeing and Nature Connection:** Develop a positive emotional connection to nature and outdoor environments. Understand the calming and

observations, thoughts, and experiences from outdoor activities, promoting literacy skills while connecting with the environment. **Writing:** **Nature Descriptive Writing:** Practice descriptive writing by describing outdoor scenes, landscapes, and natural phenomena encountered during outdoor exploration, enhancing vocabulary and sensory language skills. **Outdoor Adventure Stories:** Create imaginative stories set in nature,	**Sharing Natural Resources:** Apply multiplication and division to share natural resources (e.g., fruits, nuts) fairly among individuals during outdoor activities, promoting cooperation and mathematical reasoning. **Fractions:** **Fraction of Natural Features:** Use fractions to represent and compare parts of natural features (e.g., shaded areas, sunny spots) encountered during outdoor	measuring temperature changes throughout the day or tracking seasonal variations in plant growth. **Science:** **Plants:** Learn about the diversity of plant species found in outdoor environments, discussing their roles in providing oxygen, food, and habitat for other living organisms. **Animals, including humans:** Explore the habitats and behaviours of	patterns in nature observations or developing solutions to environmental challenges. **Information Technology:** **Using Software:** Utilise software tools to document and analyse outdoor observations, such as using digital cameras or mobile apps to capture images of plants and animals, and using software to organise and analyse data. **Internet Safety:**	activities and nature-based experiences within their community, such as school nature walks, gardening projects, or visits to local parks. **Events beyond Living Memory:** Explore historical events that have shaped attitudes towards outdoor learning and nature connection, such as the establishment of national parks, the conservation movement, or	nature. Learn about artists who draw inspiration from nature in their paintings and explore their techniques. **Sculpture:** Use natural materials found outdoors to create sculptures that reflect the shapes and textures of the environment. Experiment with sculptural techniques such as moulding, carving, and assembling to represent elements of nature. Learn about environmental	rejuvenating effects of spending time in nature on mental health and well-being. Learn coping strategies for managing stress and building resilience through outdoor activities and connection to nature. **Responsible Stewardship of the Environment:** Cultivate a sense of responsibility for caring for the environment and natural habitats. Learn about the importance of conserving biodiversity and protecting natural resources.

incorporating elements of outdoor exploration, wildlife encounters, and environmental themes, fostering creativity and storytelling abilities. **Nature Poetry:** Write poems inspired by nature, capturing the beauty and tranquillity of outdoor settings, encouraging creative expression and an emotional connection to the natural world. **Speaking and Listening:** **Nature Sharing Circles:** Participate in group discussions where students share their	learning, fostering an understanding of spatial concepts and fractions. **Measurement:** **Measuring Natural Objects:** Use measurement skills to measure the length, width, or height of natural objects (e.g., tree trunks, branches) found in outdoor environments, promoting hands-on exploration and mathematical inquiry. **Geometry:** **Identifying Geometric**	local wildlife, discussing the importance of biodiversity and conservation efforts to protect native species. **Everyday Materials:** Investigate natural materials found outdoors, such as rocks, soil, and water, discussing their properties and uses in the environment. **Seasonal Changes:** Observe and document seasonal changes in the natural world, such as the budding of	Learn about internet safety in the context of outdoor learning, including understanding how to safely share and communicate findings with others online. **Digital Literacy:** **Understanding Digital Devices:** Identify digital devices used for outdoor learning and nature exploration, such as GPS devices, digital microscopes, or wildlife cameras, and understand their role in collecting and analysing	historical figures who advocated for nature appreciation. Understand how past events have influenced current approaches to outdoor education and environmental stewardship. Develop an awareness of the historical significance of natural landscapes and their preservation for future generations. **Significant Historical Figures and Events and Sustainability**	artists who create sculptures from natural materials and discuss their work. **Printing:** Use natural objects such as leaves and flowers to create prints that reflect patterns and textures found in nature. Experiment with printing techniques such as leaf printing and mono-printing to create unique artworks inspired by outdoor learning. Explore the concept of eco-friendly printing methods and their connection to	Practise environmentally sustainable behaviours, such as reducing waste, recycling, and conserving energy, during outdoor activities. **Citizenship:** **Understanding Nature's Value and Importance:** Recognize the value of nature and natural resources for human well-being and survival. Understand personal and collective responsibilities in protecting and preserving natural environments. Explore how

outdoor experiences, observations, and feelings about nature, practising active listening and respectful communication. **Outdoor Storytelling Sessions:** Take turns sharing stories inspired by outdoor adventures, engaging in oral storytelling activities that encourage creativity, expression, and active listening skills. **Nature Walk Narratives:** Practice narrating nature walks or outdoor field trips, describing discoveries, observations, and reflections while	**Shapes in Nature:** Identify and classify geometric shapes (e.g., circles, triangles, rectangles) observed in natural surroundings, encouraging learners to recognize geometric patterns and structures in nature. **Statistics:** **Recording Outdoor Observations:** Collect and record statistical data (e.g., weather conditions, types	flowers in spring, the migration of birds in autumn, or the formation of frost in winter. **Living Things and their Habitats:** Explore different ecosystems and their inhabitants, discussing how plants, animals, and microorganisms interact to form balanced ecosystems. **Light and Sound:** Investigate the effects of natural light and sound on outdoor environments, discussing how sunlight	environmental data. **Design and Technology:** **Designing:** Design tools or equipment that facilitate outdoor learning experiences, such as designing nature journals or creating digital maps for outdoor exploration. **Making:** Engage in hands-on making activities to create nature-inspired art or crafts using natural materials found outdoors, such	**Activists and Environmentalists:** Learn about historical figures who have played important roles in promoting outdoor learning and nature conservation, such as John Muir, Theodore Roosevelt, or David Attenborough. Understand the contributions of these individuals to raising awareness about the value of nature and advocating for its protection. Explore key	nature. **Textiles:** Create textile artworks that incorporate natural materials and colours inspired by the outdoors. Experiment with textile techniques such as weaving, felting, and dyeing to represent elements of nature in textile form. Discuss the importance of sustainability in textile production and the impact of human activities on the environment. **Collage:** Use found	individual actions can contribute to global efforts to achieve sustainable development goals related to environmental conservation. **Democratic Engagement in Environmental Decision-Making:** Learn about democratic processes related to environmental policy and conservation efforts. Understand the importance of citizen participation in decision-making about land use, conservation policies, and wildlife protection. Recognize the role of individuals in

honing speaking and listening skills. **Outdoor Stories and Picture Books:** **Exploration Tales:** Discover books featuring characters embarking on outdoor adventures, exploring forests, mountains, and other natural landscapes. **Nature Conservation Stories:** Explore literature that highlights environmental conservation efforts, showcasing stories of individuals or communities working to protect and preserve nature. **Animal Encounters:** Read picture books featuring wildlife	of wildlife) during outdoor excursions, providing opportunities to analyze and interpret data while fostering an appreciation for nature. **Maths Picture Books to Support:** **"Counting on the Woods" by George Ella Lyon** This book introduces counting and number recognition skills as children explore the woods and encounter various plants and animals, reinforcing	influences plant growth and how animal calls contribute to ecosystem dynamics. **Geography:** **Locational Knowledge:** Identify natural features and landmarks in the local area, such as rivers, mountains, and forests, discussing their significance in supporting biodiversity and providing recreational opportunities. **Place Knowledge:** Develop a sense of place by	as building bird feeders or creating leaf rubbings. **Evaluating:** Evaluate the effectiveness of outdoor learning experiences in fostering nature connectedness and environmental awareness, considering factors such as engagement, curiosity, and appreciation for nature. **Technical Knowledge:** Gain technical knowledge related to outdoor equipment and	historical events related to outdoor education and nature conservation, such as the establishment of the National Park Service, the creation of wilderness areas, or the development of environmental education programs. **Historical Interpretation and National Parks:** Develop skills in analysing historical sources related to outdoor learning and nature conservation, such as historical maps, writings	materials from nature, such as leaves, twigs, and feathers, to create collages that reflect outdoor experiences. Experiment with arranging and layering natural materials to create visually interesting compositions. Discuss the concept of recycling and reusing materials found in nature for art projects. **Digital Art:** Use digital tools to create artwork inspired by outdoor learning experiences, such as digital illustrations of landscapes and	advocating for environmental protection and promoting sustainable land management practices. **Law, Justice, and Environmental Protection:** Explore laws and regulations related to environmental protection and conservation. Understand the consequences of environmental degradation on ecosystems, wildlife, and human communities. Discuss the role of law enforcement and citizens in upholding environmental laws and promoting

encounters and animal habitats, fostering curiosity and understanding of the natural world's diversity.	mathematical concepts in the context of outdoor learning. **"Nature's Numbers: Discovering Order and Pattern in the Universe" by Ian Stewart** Through engaging illustrations and examples from nature, this book explores mathematical concepts such as symmetry, fractals, and Fibonacci sequences, encouraging learners to see mathematics in the world around them during outdoor activities. **"Outdoor**	exploring and appreciating the natural beauty and diversity of the local environment, discussing the importance of conservation and stewardship. **Human and Physical Geography:** Discuss the impact of human activities on outdoor environments, such as pollution, deforestation, and urbanisation, and explore strategies for promoting sustainability and protecting natural habitats. **Geographical Skills and**	tools used for nature exploration, such as understanding how to use binoculars or how to interpret GPS coordinates, and develop basic skills for navigating outdoor environments safely.	of naturalists, or legislation related to park establishment. Understand that historical interpretations of nature and outdoor experiences may vary based on cultural, social, and political contexts. Engage in discussions about different interpretations of historical figures and events related to outdoor learning and nature connection, fostering critical thinking and appreciation for the natural	wildlife. Experiment with digital painting and collage techniques to create digital artworks that reflect the beauty of nature. Explore the use of technology as a tool for connecting to nature and raising awareness about environmental conservation. **Music:** **Singing:** Sing songs that celebrate nature and outdoor experiences, such as songs about animals, plants, and the changing	environmental justice for all. **Health and Wellbeing:** **Physical Health and Outdoor Activity:** Understand the benefits of physical activity for physical health and well-being. Engage in outdoor play and exploration to promote physical fitness and motor skill development. Learn about the importance of sun safety, hydration, and proper clothing for outdoor activities. **Emotional Wellbeing and Nature**

	Maths: Fun Activities for Every Season" by Emma AdBåge This interactive book provides outdoor math activities for each season, incorporating number sense, measurement, and geometry into nature-based learning experiences, with ideas suitable for Key Stage 1 learners.	**Fieldwork:** Develop geographical skills through outdoor fieldwork activities, such as mapping local ecosystems, conducting wildlife surveys, and exploring changes in the landscape over time.		world and national parks.	seasons. Learn lyrics that convey messages of appreciation for the natural world and the importance of environmental stewardship. Participate in group singing activities that foster a sense of connection to nature and community. **Playing Instruments:** Learn to play musical instruments that evoke sounds associated with nature, such as the flute, bird whistle, or rainstick.	**Connection:** Develop awareness of the emotional and mental health benefits of spending time in nature. Learn mindfulness and relaxation techniques inspired by the natural world, such as nature walks and meditation. Foster a sense of belonging and connection to the natural world through outdoor experiences and nature-based activities. **Financial Literacy:** **Understanding Economic Value of Nature:**

					Experiment with creating melodies and rhythms inspired by sounds heard outdoors, such as bird songs or rustling leaves. Explore musical themes of tranquillity and harmony in nature through improvisation and composition. **Listening and Appraising:** Listen to music inspired by nature, such as classical compositions depicting landscapes or folk songs celebrating the natural world. Appreciate the role of music in reflecting and	Learn about the economic benefits provided by nature, such as ecosystem services, recreational opportunities, and tourism. Understand the concept of natural capital and its importance for economic development and human well-being. Explore ways in which conserving nature can lead to long-term economic prosperity and sustainable growth. **Costs and Savings in Environmental Conservation:** Recognize the financial costs associated with environmental

					enhancing outdoor experiences and fostering a sense of connection to nature. Learn to critically evaluate music that conveys messages of environmental conservation and its impact on listeners. **Composing:** Compose music that reflects themes of outdoor learning and connecting to nature, such as compositions inspired by the sounds and rhythms of the natural world. Experiment with different musical	degradation and loss of biodiversity. Understand how investing in environmental conservation and restoration can lead to long-term savings and economic benefits for communities. Explore opportunities for individuals and communities to support environmental conservation efforts through sustainable land management practices and nature-based tourism initiatives.

					elements to evoke feelings of peace, wonder, and awe experienced in nature. Collaborate with peers to create original compositions that celebrate the beauty and diversity of the natural world. **Performing:** Perform musical pieces that celebrate outdoor learning and nature connection, such as songs or instrumental pieces inspired by outdoor experiences. Participate in ensemble performances that evoke the sights	

					and sounds of nature, such as outdoor concerts or performances in natural settings. Share musical performances with peers and the community to promote the importance of outdoor learning and connecting to nature for overall well-being.	