



SUSTAINABILITY



Big Question: What would happen to the human race if plants could no longer survive on our planet?

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
PRIMARY ENGLISH TEXT						
SUPPLEMENTARY TEXTS						
HISTORY AND GEOGRAPHY	<p>Weather</p> <p>How do seasonal changes in weather affect sustainability?</p> <p>What can we grow in Spring? What can we not grow? Why?</p> <p><i>Strawberry Investigation</i></p>	<p>Local Study (Fieldwork Observations)</p> <p><i>How Green is Our School?</i></p> <ul style="list-style-type: none"> -What is a human feature? -What is a physical feature? -Walk around the school and identify the human and physical features? -Which are there more of? 	<p>Farming</p> <p>Explore the differences in farming across a variety of civilisations.</p> <p>What tools were used? How do techniques differ? How successful was harvest? What crops were grown? Why? How important were farmers?</p>	<p>Houses Through the Ages</p> <ul style="list-style-type: none"> -How have residential buildings changed over time in England? -What factors have contributed to these changes? -Why was a Stone Age home different from an Egyptian home in the same time period? -What have been the most significant changes to houses in Britain over the last 100 years? 	<p>Global Warming</p> <ul style="list-style-type: none"> -What is global warming? -Why has global warming not always been an issue? -What is my carbon footprint? -What choices can I make to help the planet? -How green is my school? <p>Project</p>	<p>Local Study (Fieldwork Observations)</p> <ul style="list-style-type: none"> -Change and use of the river Medway through time -Impact on the local area from 1760 onwards (industrial Revolution). -Impact of WW2 on the local area. <p><i>Aerial maps decade by decade</i></p> <p>Biomes and Vegetation Belts</p>

	<p>Replicate the environment of all four seasons and monitor the growth. Why do we get strawberries from in the winter?</p>	<p>-How might this have changed over time?</p> <p>https://webapps.kent.gov.uk/KCC.HeritageMaps.Web.Sites.Public/Default.aspx</p> <p>Traffic Survey: collecting traffic data from Poplar Grove</p>	<p><i>Make a Shaduf</i> Children to make an Egyptian shaduf used for irrigation.</p>  <p>Link: Levers and Pulleys</p> <p>-----</p> <p><i>The History of the Potato</i></p>	<p>House Exhibition: Houses over the past 100 years Create models and drawings of houses and organise into an exhibition which accurately demonstrates change over time (parents to attend)</p>	<p>Investigate the sustainability of our school. The following areas should be studied: -food -water -energy</p> <p>https://www.glsed.co.uk/blog/smart-community/eco-school-ideas-23-ways-to-make-your-school-green</p>	<p>-If England suddenly had a subtropic climate, what would the impact be?</p>
SCIENCE	<p>Everyday Materials</p> <p>-What objects can be recycled? -How do we determine which materials can be recycled?</p> <p>Visit: Science Museum – <i>Great Object Hunt</i></p> <p>Plants</p> <p>-Explore local plant habitats and identify species of plants that will thrive at Palace Wood. -Learn about caring for plants -Plant a new species of plant in the school grounds.</p> <p>Seasonal Changes -Record weather on a chart at the beginning of each day. <i>Evaluate changes at the end of the year.</i></p>	<p>Compare uses for everyday materials</p> <p>FUN FACT: The plastic in the ocean would cover 40% of the ocean's surface.</p> <p>-Is plastic bad? -Is plastic sustainable? -Which everyday materials are sustainable? - Can plastic be recycled? -What if we can longer recycle it? What are our options? -Who has made significant contributions to recycling?</p> <p>Experiment: mealworms vs polystyrene</p>	<p>Plants</p> <p>-What are the different parts of flowering plants and what are their functions? -What is the most sustainable naturally occurring material? <i>Dissect a daffodil</i> -What is the life cycle of a flowering daffodil? -What does a plant need to grow? Does every fruit have a seed? <i>Variety of fruits and children to find the seeds and plant them. Which seeds germinate the fastest?</i> -How does this link to sustainability?</p> <p>-How does water travel? <i>Flower dye experiment</i></p>	<p>Electricity</p> <p>-What appliances run on electricity? -What is renewable energy? -What makes a good insulator? -Can insulating materials save energy? -What is a circuit and what is its purpose? -What are conductors and insulators?</p>	<p>Properties and changes of materials</p> <p>-Compare a range of materials identifying and comparing their properties -Can we organise objects and materials into solids, liquids and gasses? -What materials would be good for filtering water and why? Where does your tap water come from? What is a reversible change? What is a non-reversible change? (water prior to filtration vs. water after filtration)</p> <p>Trip: Water filtration centre</p> <p><i>Make a Water Filter</i></p> <p>-What is a natural spring?</p> <p>Design and make water filters.</p> <p><i>Using knowledge from science lessons, children source appropriate materials to make a successful water filter.</i></p>	<p>Evolution</p> <p>-How have plants and animals adapted to suit their environments? <i>(focus on plants)</i> -Is there anywhere a rose won't grow?</p> <p>Electricity</p> <p>-Why is renewable energy important?</p> <p>Project: Building a Wind Turbine</p> <p>Build a circuit to create a wind turbine</p> <p>-Reinforce that increased power = increased speed</p>
ART AND DT	<p>House Building Project</p> <p>How clever were the three little pigs?</p>	<p>Andy Warhol's Flowers</p> <p>Create our own screen prints inspired by the work of Andy Warhol.</p>	<p>Design and Create a Flower Bed</p> <p>- Why are trees important?</p>	<p>Sustainable Fashion</p> <p>-What is sustainable fashion? -Who is Stella McCartney?</p>	<p>Are Wind Turbines an Eyesore?</p> <p>Looking at the work of Horst Glasker, an artist renowned for his use of pattern.</p>	<p>Contemporary Art: Chris Solcz</p> <p>Getting inspired by Chris Solcz's work including his electric spirit animal paintings</p>

	<p>What materials would you use to build a house? How does twisting, rolling and scrunching paper affect its strength?</p> <p><i>Children use a range of recyclable materials to build houses from. We will test their stability using a desktop fan.</i></p>		<p>- What plants thrive at Palace Wood? Why?</p> <p><i>Children design and create their own flower beds using a selection on plants that will grow well at Palace Wood (grassy area in front of Acorn's office).</i></p> <p>Visit: Garden Safari (church) Talk: Member of gardening club (church)</p>	<p>-Is sustainable fashion accessible for all?</p> <p><i>Design and create a piece of sustainable fashion.</i></p> <p>Workshop: https://www.themakeshed.co.uk/about/</p>	 <p>Visit: Wind turbine</p> <p>Little Cheyne Court Wind Farm, Dungeness</p> <p>The Wind Farm Lake, Ivychurch, Rye, TN317PG</p> <p>-Take pictures and sketch</p>	 <p><i>Electric Spirit Bear</i></p>
RE	<p>Green Religion Day</p> <p>What does Christianity teach us about caring for the Earth?</p>	<p>Green Religion Day</p> <p>What does Hinduism teach us about caring for the Earth?</p>	<p>Green Religion Day</p> <p>What does Islam teach us about caring for the Earth?</p>	<p>Green Religion Day</p> <p>What does Buddhism teach us about caring for the Earth?</p>	<p>Green Religion Day</p> <p>What does Judaism teach us about caring for the Earth?</p>	<p>Green Religion Day</p> <p>What does other worshipping faiths teach us about caring for the Earth?</p>
PROJECT WEEK	<p>Food, Glorious Food!</p> <p>-How can we use food to help others? -Should we live in a world where poverty and food waste exist? -What can we do?</p> <p><i>Organise a food drive. Work with local charities/ organisations to help those in need.</i></p>	<p>Litter, Litter, Litter!</p> <p><i>Work with the local authority to design and create posters informing local residents of the impact of littering.</i></p>	<p>Plastic Fantastic!</p> <p>Improve our school garden by upcycling plastic bottles.</p> 	<p>Eggs Please!</p> <p>Design and make a chicken coup for our garden.</p>	<p>We ALL Need Water!</p> <p>Design and organise fundraising activities in order to raise money for WaterAid UK.</p> <p>https://www.wateraid.org/uk/</p> 	<p>Leftovers Please!</p> <p>How can we reduce food waste within our school?</p> <p>Project:</p> <p>Design and create a school compost bin out of recycled materials.</p>