

# Topic Plan

Year 4		
Spring 2 – ‘Pollution Solution’		
Key Skills	Key Facts	Key Vocabulary
<ul style="list-style-type: none"> <li>Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>Use results to draw simple conclusions, make predictions for new values, suggest improvements, and raise further questions.</li> <li>Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.</li> <li>Describe how people have been affected by changes in the environment.</li> <li>Use his/her knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them.</li> </ul>	<ul style="list-style-type: none"> <li>It can take up to 500 years for a piece of plastic to biodegrade.</li> <li>If the level of pollution continues, by the year 2050 experts think the amount of plastic in the ocean will weigh more than the amount of fish.</li> <li>Single use plastics make up 40% of the plastic made every year.</li> <li>About eight million tonnes of plastic are dumped in the ocean each year.</li> <li>Approximately, 83% of earth’s land surface has been affected by human activity, threatening plant and animal species.</li> <li>In the UK we recycle only 17% of our waste.</li> </ul>	<ul style="list-style-type: none"> <li><b>Biodegradable</b> – capable of being decomposed avoiding pollution.</li> <li><b>Pollution</b> - when something is added to the environment that is harmful or poisonous to living things.</li> <li><b>Recycle</b> - taking a material like the plastic in a plastic bottle or the metal in a drink can and putting it through a process so the material can be used again.</li> <li><b>Upcycle</b> - reuse (discarded objects or material) in such a way as to create a product of higher quality or value than the original.</li> <li><b>Endangered</b> – animals close to extinction.</li> <li><b>Extinction</b> - there aren't very many of that type of animal left in the world</li> </ul>
Key Figures/Places	Reading and Writing Links	
<ul style="list-style-type: none"> <li>Alexander Parkes – In 1855 he created the earliest example of plastic called Parkesine. We now know it as celluloid.</li> <li>Leo Baekeland – in 1907 he created Bakelite, the first real synthetic, mass-produced plastic.</li> <li>Greta Thunberg – a young activist who stands up against world leaders at their failures to address the climate crisis.</li> </ul>	<p><b>Writing:</b></p> <ul style="list-style-type: none"> <li>A set of instructions.</li> <li>Poem</li> </ul> <p><b>Reading – Class text for guided reading – ‘The Wild Robot’ by Peter Brown.</b></p> <p>We are developing the children’s ability to infer and extract information from a text within school. To support this, it is vital that the children are reading at least 5 times per week at home for 30 minutes. They should record this in their reading record and ask an adult from home to initial it.</p>	

