

Essential Learning

By the end of this term, you will have...

- compare and group materials
- learned about reversible or irreversible changes to materials
- carry out scientific investigations involving dissolving, filtering, melting, evaporation and separation
- understand the effect of chemical changes in our everyday life e.g. cooking
- understand that new materials that have been created by chemists e.g plastic
- looked at the effects of plastics on our oceans
- described the differences in the life cycles of mammals, amphibians, insects and birds
- learnt about the life process of sexual and asexual reproduction in plants and animals, as well as humans
- looked at the changes as humans develop from babies, through puberty to old age
- learnt how to be an Eco Warrior and advocate for our planet through our actions as well as persuasive speech writing

Year 5: Climate Warriors



Block 1

- write a persuasive speech about plastic pollution
- learn about the life cycles of plants and animals, including humans



Block 2

- carry out a range of scientific investigations including separating materials and reversible and irreversible changes
- write up our scientific findings in a formal, scientific manner

Year 5: Climate Warriors National Curriculum Links

Science	PSHE
<ul style="list-style-type: none"> Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Find out about different types of reproduction, including sexual and asexual reproduction in plants, and sexual reproduction in animals. Describe the life process of reproduction in some plants and animals including mammals and humans. describe the changes as humans develop to old age. Describe the changes as humans develop to old age. compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic demonstrate that dissolving, mixing and changes of state are reversible changes explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. 	<ul style="list-style-type: none"> I am aware of my own self-image and how my body image fits into that. I can explain how a girl's body changes during puberty and understand the importance of looking after yourself physically and emotionally. I can describe how boys' and girls' bodies change during puberty. I can identify what I am looking forward to about becoming a teenager and understand this brings growing responsibilities (age of consent) I can identify what I am looking forward to when I am in Year 6.

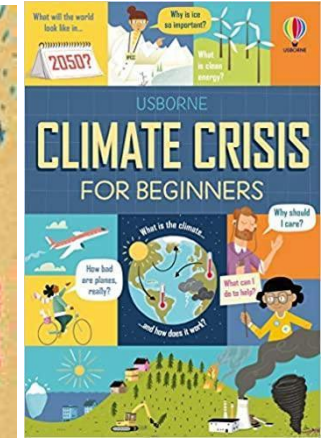
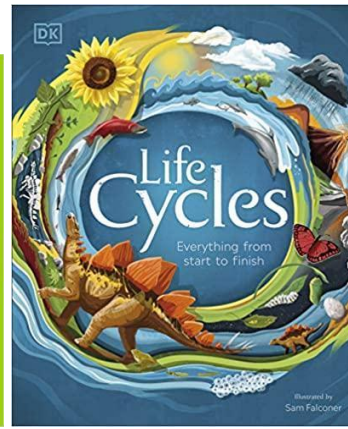
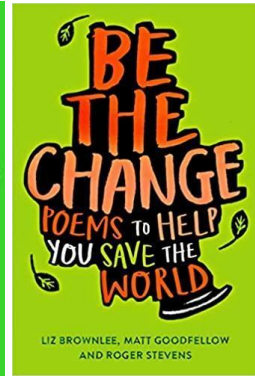
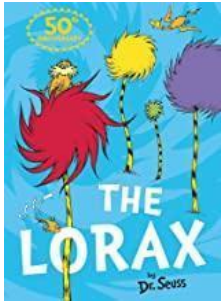
Key vocabulary

Climate change, Green Houses gases, consequences, pollution, environment, Global warming, carbon emissions, ozone layer, fossil fuels, renewable energy, atmosphere, Greenhouse effect, oxygen, carbon dioxide.

Reversible changes, irreversible changes, evaporation, dissolving, solution, filter, mix, melting, burning, material.

Human, animal, mammal, reptile, amphibian, insect, flowering plant, sexual and a-sexual reproduction, lifecycle, life stage.

Key texts



Writing genres

Persuasive writing - plastic pollution
Writing to inform – Scientific methods and conclusions.
Explanation texts.