



Incredible Earth and Space

In this unit of learning children will investigate the movement of the Earth, and other planets, relative to the Sun in the solar system.

Children will explore the movement of the Moon relative to the Earth.

Children will use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. They will investigate the phases of the moon.

Through investigative approaches, children will create a fruit Solar System, undertake the Oreo Challenge when exploring the phases of the moon and even undertake a mission from NASA - Protecting an Egnaut!

The children will connect their scientific explorations to the theory and achievements of key scientists, astronomers and figures connected to the world of Earth and Space. **This UNIT is SIMPLY out of their WORLD!**

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Properties and Changes in Materials

Children will build a more systematic understanding of materials by exploring and comparing the properties of a broad range of materials, including relating these to what they learnt about magnetism in year 3 and about electricity in year 4. They will explore reversible changes,

including, evaporating, filtering, sieving, melting and dissolving, recognising that melting and dissolving are different processes. Children will explore changes that are difficult to reverse, for example, burning, rusting and other reactions, for example, vinegar with bicarbonate of soda. Learning will also include how chemists create new materials, for example, Spencer Silver, who invented the glue for sticky notes or Ruth Benerito, who invented wrinkle-free cotton.

Science Curriculum Overview Year 5

Living Things and their Habitats

Are you ready to explore the cycle of life and flower power?

The unit build on the previous content by introducing children the differences in the life cycles of a mammal, an amphibian, an insect and a bird. The children will observe life-cycle changes in a variety of living things, for example, plants in the vegetable garden or flower border, and animals in the local environment. They will describe the life process of reproduction in some plants and animals. Children will study and raise questions about their local environment. Children will find out about the work of naturalists and animal behaviourists, for example, David Attenborough and Jane Goodall.



Forces in Action!

MAY THE FORCE BE WITH YOU!

In this unit of learning children will investigate forces in action (gravity, air resistance, up thrust, friction) and make links to these forces in everyday life. They will investigate impact of variables upon these forces. The main focus is investigative learning where children will be asking questions that can be answered by different types of investigative activity and decide the best approach to use; making predictions based on scientific knowledge; carrying out fair tests; making measurements and repeating them and finding averages to test accuracy of results; presenting findings in graphs, charts and tables and drawing conclusions that utilise more than one piece of supporting evidence, including numerical data and line graphs. They will devise criteria to evaluate their approaches, products and outcomes. Whether it is the **EGGCING EGG PARACHUTE** investigation to test air resistance or the **SHOE GRIP FRICTON TEST** or even exploring gears, levers and pulleys, this unit will ensure children have their scientific hats at the ready!

