

Year 5 Objectives

Forces

Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.

Identify the effects of air resistance, water resistance and friction that act between moving surfaces.

Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs.

Animals Inc. Humans

Describe the changes as humans develop to old age.

Properties of Materials

Compare and group materials together according to their properties - hardness, solubility, transparency, conductivity and response to magnets.

Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from solution.

Use knowledge of solids, liquids and gases to decide how mixtures might be separated including filtering, sieving and evaporating.

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 associated with burning and the action of acid on bicarbonate of soda.

Earth and Space

Describe the movement of the Earth and other planets in relation to the sun.

Describe the movement of the moon in relation to the Earth.

Describe the sun, earth and moon as approximately spherical bodies.

Use the ideas of the Earth's rotation to explain day and night.

Living Things and their Habitats

Describe the differences in the life cycle of a mammal, amphibian, an insect and a bird.

Describe the life processes of reproduction in some plants and animals.