



CURRICULUM OVERVIEW

YEAR 5 SCIENCE



ANIMALS

TERM 1



PLANTS

Describe the human digestive system, including the functions of the organs involved (limited to mouth, esophagus, stomach, small intestine, large intestine and anus), and know that many vertebrates have a similar digestive system

Describe how plants and animals are adapted to environments that are hot, cold, wet and/or dry.

Know that animals, including humans, need an adequate, balanced diet in order to be healthy.

Describe the common adaptations of predator and prey animals

Know that not all plants produce flowers.

Know the stages in the life cycle of a flowering plant.

Describe seed germination and know that seeds, in general, require water and an appropriate temperature to germinate.

Describe how flowering plants reproduce by pollination, fruit and seed production, and seed dispersal.



MATERIALS (STATES OF MATTER)

TERM 2



WAVES (SOUND)

Use the particle model to describe solid, liquids (including solutions) and gases.

Know the main properties of water and recognise that it acts differently to many other substances.

Describe the processes of evaporation and condensation, using the particle model and relating the processes to changes in temperature.

Know that the ability of a solid to dissolve and the ability of a liquid to act as a solvent are properties of the solid and liquid.

Investigate and describe the process of dissolving and relate it to mixing.

Investigate how sounds are made by vibrating sources.

Describe sounds in terms of high or low pitch and loud or quiet volume.

Know that plants need light and water to survive.



PLANET EARTH

TERM 3



FORCES

Describe the orbit of the Earth around the Sun (limited to slight ellipse, anticlockwise direction and the duration).

Describe how the tilt of the Earth can create different climates and seasons over the year in different places.

Know that the Earth is surrounded by a layer of air called the atmosphere, which is a mixture of different gases (including nitrogen, carbon dioxide and oxygen).

Understand that pollution is the introduction of substances by humans that harm the environment and identify examples of pollution.

Identify a range of forces (limited to gravity, applied forces, normal forces, upthrust, friction, air resistance and water resistance).

Know that an object may have multiple forces acting upon it, even when at rest.

Know that forces act over a distance between magnets, and between a magnet and a magnetic material.

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