

Science Learning Journey - KS2



KS3

Exploring variation and inheritance in different living things and how observations and fossil evidence have led to the theory of evolution.

Evolution and Inheritance

Circuits, batteries and switches

Developing knowledge of circuits, the effects of changing voltage and how switches contribute to different devices.

Circulation and Health

Exploring the heart and circulatory system through models and enquiries and considering how lifestyle choices affect our health.

Making connections

Testing light and UV transmission of different sunglasses through an enquiry to decide which pair work best.

Light and Reflection

Exploring how light travels in straight lines and that this explains observations of shadows and reflection.

Classifying big and small

Classifying living organisms based on their characteristics and using keys to identify and group them.

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Making connections

Exploring the relationship between the size of model asteroids and the diameter of the impact crater.

Human Timeline

Exploring how humans change from a baby through to old age, including puberty, measurements of growth and gestation periods.

Unbalanced Forces

Investigating gravity, friction, air and water resistance and their effects.

Properties and Changes

Exploring the properties of everyday materials and reversible and irreversible changes to them.

Earth and Space

Exploring day and night and the movement of the Earth, planets and Moon.

Life Cycles and Reproduction

Exploring the life cycles of plants and animals and the life process of reproduction.

Mixtures and Separation

Exploring different types of mixtures and the appropriate methods to separate them.

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Making connections

Exploring the role of the digestive system and comparing teeth and diets of different animals as part of a food chain.

Classification and changing habitats

Exploring the relationship between viscosity and the flow of liquids through scientific enquiry.

Grouping and classifying living things and exploring habitat changes.

Exploring volume, pitch and how sound travels.

Sound and Vibrations

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Digestion and Food

Electricity and Circuits

Exploring electrical components and conductivity through circuit building and real-life applications.

States of Matter

Exploring states of matter and changes of state.

Exploring the relationship between hand span and grip strength through scientific enquiry.

Making connections

Light and Shadows

Exploring the link between light and darkness, observing reflections and investigating different factors that affect shadows.

Plant Reproduction

Describing the life cycle of a flowering plant and carrying out tests to investigate plant structure and function.

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Rocks and Soil

Exploring the physical properties of rocks and soils and fossil formation.

Movement and Nutrition

Exploring the role of skeletons and muscles, learning how the body uses energy and what constitutes a balanced diet.

Forces and Magnets

Exploring contact and non-contact forces, including friction and magnetism and their effects.

Key Unit Areas
Plants
Animals, including humans
Living things and their habitats
Materials
Energy
Forces, Earth and Space
Making connections