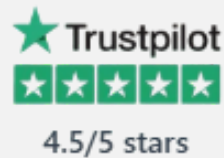


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SCIENCE EXPLORERS

MODULE -1 WHAT ARE LIVING THINGS AND WHAT ARE THEY MADE OF?

REPRODUCTION AND LIFE CYCLES: PLANTS

- Lesson name
- Asexual reproduction in plants
- Plants from cuttings
- Parts of a flowering plant and what they do
- Pollinators (non-statutory)
- Dangers to pollinators (non-statutory)
- Selective breeding of plants (non-statutory)
- Conservation of plants using seed banks (non-statutory)
- Plant life cycles
- Plant reproduction from cuttings



SCIENCE EXPLORERS

MODULE -2 HOW DO FORCES MAKE THINGS HAPPEN?

REPRODUCTION AND LIFE CYCLES: ANIMALS

- Animal groups
- Insects (non-statutory)
- Mammal life cycles
- Bird life cycles
- Comparing the life cycles of mammals and birds
- Amphibian life cycles
- Insect life cycles
- Comparing the life cycles of amphibians and insects
- Endangered animals and life cycles (non-statutory)
- More About Endangered Animals
- Animal Gestation Periods



SCIENCE EXPLORERS

MODULE -2 HOW DO LIVING THINGS GROW AND REPRODUCE?

HUMAN DEVELOPMENT

- Changes in humans before and after birth
- Changes in childhood
- Changes during puberty
- Changes in adulthood
- Changes in old age
- Finding out about human height
- The impact of population growth (non-statutory)



SCIENCE EXPLORERS

MODULE -3 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

PROPERTIES, CHANGES AND SEPARATING MATERIALS

- Properties of materials
- Uses of everyday materials
- Thermal insulators: plan
- Everyday uses of thermal insulators
- Insulating our homes and schools (non-statutory Climate Change & Sustainability)
- Soluble and insoluble
- Recovering insoluble solids
- Providing safe drinking water (non-statutory Climate Change & Sustainability)
- Separating soluble solids from solutions
- Removing salt from seawater (non-statutory)
- Reversible changes of state
- Burning: an irreversible change
- Burning plants as fuel (non-statutory Climate Change & Sustainability)
- Greenhouse gases (non-statutory Climate Change & Sustainability)
- Bioplastics (non-statutory Climate Change & Sustainability)
- Rusting: an irreversible change
- How scientists work



SCIENCE EXPLORERS

MODULE -3 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

SEPARATING MIXTURES

- What makes something pure?
- What makes something a mixture?
- What is a formulation?
- How can we separate mixtures into pure substances?
- How can you separate a mixture of sand, salt and water?
- How can we separate river water into separate substances?



PHYSICAL AND CHEMICAL CHANGES

- What happens during a state change?
- What is a physical change and how can we identify them?
- What is a chemical reaction and how can we identify them?
- What is the difference between physical and chemical changes?
- What can we do to investigate chemical reactions?
- What happens when we place metals into acid?



SCIENCE EXPLORERS

MODULE -4 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

FORCES INCLUDING SIMPLE MACHINES

- Introduction to gravity
- Pushes and pulls
- Friction: plan
- Air resistance: plan
- Water resistance: plan
- How levers can help us
- How pulleys can help us
- How gears can help us
- Simple machines
- Design and development of machines



FORCES

- What are forces?
- What are contact forces?
- What are non-contact forces?



SCIENCE EXPLORERS

MODULE -5 HOW DOES THE EARTH FIT INTO THE UNIVERSE?

EARTH, SUN AND MOON

- The shape of Earth
- The shape of objects in space
- Observing the Moon
- The relative sizes of the Earth, Sun and Moon (non-statutory)
- More about the Sun (non-statutory)
- Why we have day and night
- Why the Sun appears to move across the sky
- The planets in our solar system (non-statutory)
- The movement of the planets around the Sun
- How we see the Moon from Earth
- The movement of the Moon



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