



Science

Long Term Overview

*In Jesus' footsteps we will grow in grace
and knowledge*



| Early Years | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|---|--|--|---|---|---|
| Nursery Understanding the World The Natural World | THE STORY OF CREATION Day and Night What is a day and a night? Where does the sun go at night? Building Foundations for Light | MOUSE PAINT Colour Mixing What colours can you see? Can you see in the dark? Building Foundations for Light | ONE SNOWY NIGHT Winter weather changes How can we keep ourselves warm in winter? Building Foundations for Seasonal Changes | JACK AND THE BEANSTALK Conditions for growth (fast) (sunlight, water, soil) How do seeds grow? Building Foundations for Plants | SAM PLANTS A SUNFLOWER Conditions for growth (slow) (sunlight, water, soil) What happens to seeds if they don't have sunlight, soil and water? Building Foundations for Plants | OI FROG / TOAD MAKES A ROAD The Lifecycle of a Frog Do all tadpoles turn into frogs? Building Foundations for Animals |
| Reception Understanding the World The Natural World | THE STORY OF CREATION Earth and the Solar System What is Earth? What do we know about beyond Earth? Building Foundations for Earth and Space | NOAH'S ARK White light and wavelengths How do we see different colours? Why can't we see in the dark... or can we? Building Foundations for Light | ONE SNOWY NIGHT Shorter days. Freezing and Melting What happens to water when it is cold? Building Foundations for Seasonal Changes / Working Scientifically | JACK AND THE BAKED BEANSTALK Conditions for growth (comparing and experimenting) How can we grow the best beans? Building Foundations for Plants / Working Scientifically | OLIVER'S VEGETABLES Taste testing (salads) Plant knowledge What are vegetables and are they the same as fruits? Building Foundations for Plants | THE VERY HUNGRY CATERPILLAR The Lifecycle of a Butterfly Do all caterpillars turn into butterflies? Building Foundations for Animals |



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| YEAR 1 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|---|--|---|--|--|
| CUSP Units (Curriculum with Unity Schools Partnership) | Seasonal changes and weather Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies | Plants, including trees Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees Identify and describe the basic structure of a variety of common flowering plants, including trees | Retrieve and Revisit Plants | Animals, including humans Identify and name animals including fish, amphibians, reptiles, birds and mammals Identify and name animals that are carnivores, herbivores and omnivores Describe and compare the structure of animals (fish, amphibians, reptiles, birds and mammals including pets) Identify, name, draw and label the basic parts of the human body (linked to each sense) | Everyday materials (Compare and group) Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday materials Compare and group together a variety of everyday materials on the basis of their simple physical properties | Retrieve and Revisit Animals including humans Retrieve and Revisit Plants and animals, including humans |
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| YEAR 2 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|--|---|--|---|---|
| CUSP Units (Curriculum with Unity Schools Partnership) | Living things and their habitats Living, dead, and things that have never been alive. Habitats Identify and name a variety of plants and animals in their habitats, including microhabitats Simple food chain, and different sources of food | Animals, including humans (offspring, basic needs) Notice that animals, including humans, have offspring which grow into adults Learn about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. | Uses of Everyday Materials (suitability for particular uses) Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching | Retrieve and Revisit: Living Things and their Habitats and Everyday Materials | Plants (seeds / bulbs, what plants need) Observe and describe how seeds and bulbs grow into mature plants Learn about and describe how plants need water, light and a suitable temperature to grow and stay healthy. Retrieve and Revisit: Uses of Everyday Materials | Retrieve and Revisit Plants and Animals including Humans Retrieve and Revisit Living Things and their Habitats |



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| Lower Key Stage 2 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|--------------------|---|---|-------------|--|
| Year A (2023-24) CUSP Units (Curriculum with Unity Schools Partnership) | Animals including humans (Nutrition, skeletons and muscles) | Forces and Magnets | Living things and their habitats & classification | States of matter (Solids, liquids & gases, heating and cooling) | Sound | Retrieve and revisit: Animals including humans and Living things and their habitats |
| Year B (2024-25) CUSP Units (Curriculum with Unity Schools Partnership) | Rocks | Light | Plants | Animals including humans (Digestion and food chains) | Electricity | Retrieve and revisit: Rocks |



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| Upper Key Stage 2 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|--|--|--|--|---|--|
| Year 5 CUSP Units (Curriculum with Unity Schools Partnership) | Living Things and Their Habitats (Life cycles and reproduction) | Animals including humans (Changes from birth to old age) | Properties and changes of materials (Comparisons) | Earth and Space | Forces (Gravity, air and water resistance, friction) | Retrieve and revisit (Living Things and Their Habitats) |
| Year 6 CUSP Units (Curriculum with Unity Schools Partnership) | Living Things and Their Habitats Classification | Light | Animals including humans (Circulatory system) | Animals including humans (Nutrients and water transportation) | Electricity | Evolution and inheritance Retrieve and revisit |