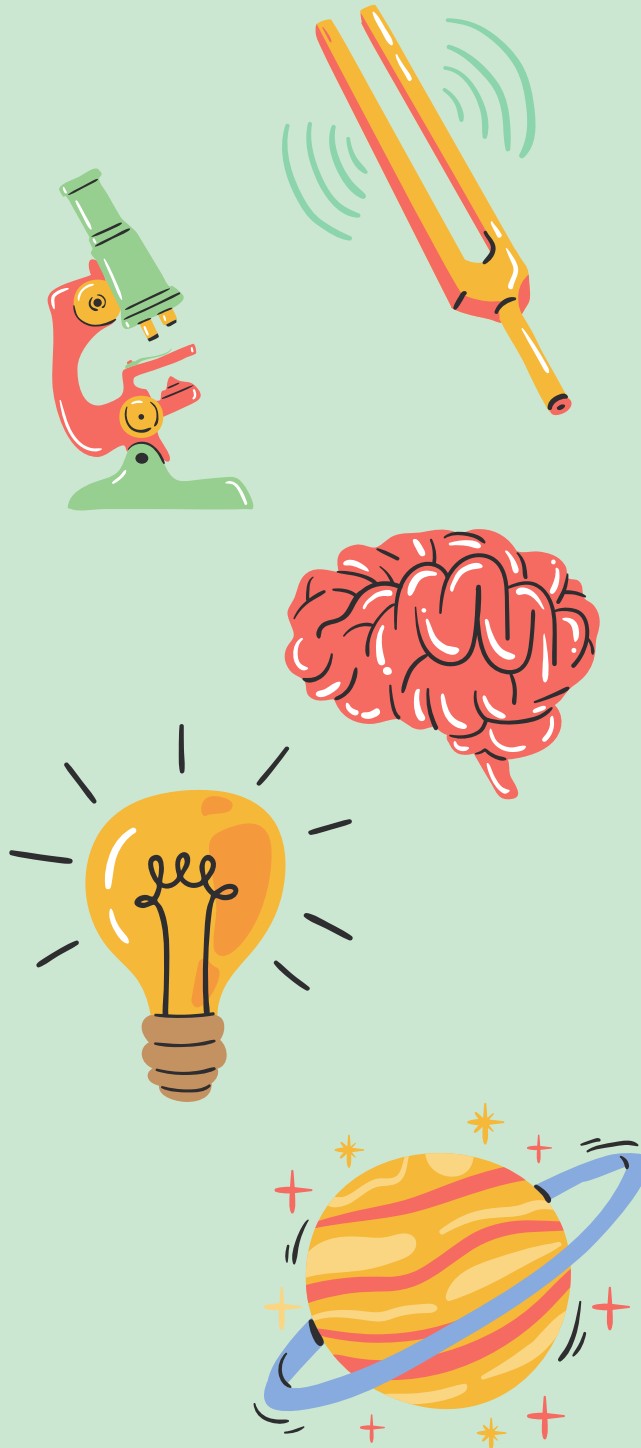


Science in Action

At Viridis, one of our core aims in science is to develop investigative skills; these allow children to explore and discover scientific phenomenon for them selves, ultimately resulting in a far better knowledge and understanding of the world around them. To do this, half termly experiments are planned for and carried out.

Children will:

- Plan investigations and experiments to answer how and why questions
- Collect and record information from investigations in a safe and controlled way
- Reflect on the results found and question whether findings were what was expected
- Find ways of checking results
- Develop a scientific vocabulary



Science

Science is a core subject at Viridis schools. It teaches children to ask questions about the world around them. Science develops strategies and methods for finding out the answers to those questions. Children are led to reflect on what they have found out.

Children have opportunities to find out about Science through a range of sources. These include first hand experience of experiments and using equipment safely. Children are also supported to use a range of resources to discover information about the world around them, using both the library and the internet to source the answers to their many questions.

Working together is important in science and children learn to share resources as well as ideas and findings.

The Curriculum

YEAR 1

Autumn: Animals including Humans

You can help at home by: Discussing the 5 senses and thinking about different types of animals.

Spring: Materials and Plants

You can help at home by: Discussing the materials of clothes and furniture and why they are good for their job. Growing a seedling in a flowerpot.

Summer: Light and Seasonal Changes

You can help at home by: Discussing shadows and how they get bigger and smaller. Talking about the seasons in the year.

YEAR 2

Autumn: Electricity and Sound

You can help at home by: Discussing what we use electricity for and how to stay safe. Use equipment at home to make different sounds and discuss how you can change a sound.

Spring: Plants and Materials

You can help at home by: Discussing the materials of clothes and furniture and why they are good for their job. Growing a seedling in a flowerpot.

Summer: All Living Things and Animals Including Humans

You can help at home by: Looking at a variety of animals in their habitats with your child and talking about these.

YEAR 3

Autumn: Rocks and Light

You can help at home by: Discussing materials that your house/garden have in it. Noting the direction of shadows.

Spring: Forces and Magnets

You can help at home by: Looking at toys with springs and fridge magnets.

Summer: Plants and Animals Including Humans

You can help at home by: Walks in the park and discussing where plants prefer to grow.

YEAR 4

Autumn: Scientific Theory and Animals including Humans

You can help at home by: Testing theories like gravity!

Spring: Sound and All Living Things

You can help at home by: Looking at toys with springs. Group and classify different animals.

Summer: Electricity and States of Matter

You can help at home by: exploring how water can change state or change the state of other materials.

YEAR 5

Autumn: Sound and Animals Including Humans

You can help at home by: listening to music and talking about the high/low/loud/quiet sounds. Talking about the journey through life stages. Discussions in healthy living.

Spring: Earth and Space and Living Things

You can help at home by: Noting the shape of the moon each night.

Summer: Changes of materials and forces

You can help at home by: talking about sounds, liquids and gasses. Looking at toys with levers, pullers and gears.

YEAR 6

Autumn: Evolution and Inheritance and Animals Including Humans

You can help at home by: talking about inherited features. Talking about the circulatory system.

Spring: Living Things and their Habitat and Light

You can help at home by: classifying different living things into groups. Talking about how light travels.

Summer: Electricity

You can help at home by: Looking at toys which have electrical components and devices.

Nursery and Reception

Investigate objects and materials by using all of their senses as appropriate.

Find out about and identify some features of living things, objects and events they observe.

Look closely at similarities, differences and patterns and change.

Ask questions about why things happen and how things work.

Find out about and identify the uses of everyday technology and use information and communication technology and programmable toys to support learning.

Observe and find out about features of the natural world.

You can help at home by:

- Playing with your child and talking about what they have found out.
- Taking trips to the park and enjoying finding out about the world around them.

