St John Vianney Catholic Primary School

# SJV Science Curriculum Overview

**Intent**

At St John Vianney Catholic Primary School, we aim to develop children's natural curiosity about the world around them and inspire them to think and work like scientists. Through practical investigations, enquiry-based learning and the development of scientific knowledge, pupils learn to ask questions, make observations, gather evidence and draw conclusions. Our curriculum is carefully sequenced to ensure that knowledge builds progressively from the Early Years through to Year 6.

**Implementation**

Science is taught through discrete units of work which develop scientific knowledge alongside enquiry skills. Scientific enquiry is woven throughout each unit to ensure children understand not only scientific knowledge but also how that knowledge is developed.

**Curriculum Overview**

| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|---|---|---|---|---|
| EYFS | In EYFS, children develop early scientific enquiry skills through exploration, observation, questioning and investigation within the Natural World strand of Understanding the World. | | | | | |
| Year 1 | Materials and their properties | Animals including humans | Plants | Animals including humans | Materials and their properties | Plants |
| | In Year 1, children will explore seasonal changes throughout the academic year. | | | | | |
| Year 2 | Living things and their habitats | Materials and their properties | Plants | Animals including humans | Living things and their habitats | Materials and their properties |
| Year 3 | Light | Rocks | Animals including humans | Plants | Forces and magnets | Forces and magnets |
| Year 4 | Sound | Electricity | Animals including humans | Living things and their habitats | States of matter | States of matter |
| Year 5 | Forces | Earth and space | Animals including humans | Living things and their habitats | Materials and their properties | States of matter |
| Year 6 | Living things and their | Evolution and inheritance | Animals including | Electricity | Light | Light |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | **habitats** | | **humans** | | | |

**Progression in Science**

Biology

Pupils progressively develop their understanding of animals, humans, plants, habitats and evolutionary processes, building from observation and identification in the early years to classification and evolution in Upper Key Stage Two.

Chemistry

Pupils develop their understanding of materials and their properties before exploring rocks, states of matter and how materials can change.

Physics

Pupils explore seasonal change before developing their understanding of forces, electricity, sound, light and Earth and Space through increasingly complex investigations.

**Working Scientifically**

Throughout the school, pupils develop the skills needed to work scientifically. Children learn to ask questions, make predictions, plan investigations, make observations, record results, interpret data and draw conclusions using evidence.

**Impact**

By the time pupils leave our school, they will have a secure understanding of the scientific knowledge outlined in the National Curriculum, use scientific vocabulary confidently and be prepared for the next stage of their education as enthusiastic young scientists.