



# Science

## at South Kirkby Academy

At SKA our vision is to give children a Science curriculum which enables them to explore and discover the world around them, confidently, so that they have a deeper understanding of the world we live in. To achieve this it involves exciting, practical hands on experiences that encourage curiosity and questioning. Our aim is that these stimulating and challenging experiences help children secure and extend their scientific knowledge and vocabulary. We believe that these opportunities will ensure that our children are confident, life-long learners who will explore the world around them.

**Implementation** In their weekly science lessons children learn about new concepts (from various sources including books, videos, ICT sources, etc.), research famous scientists and discoveries and ask scientific questions about the world around them. Each unit of study also has planned opportunities for children to work scientifically through investigations and experiments, to develop their scientific skills and deepen their understanding of the scientific concepts taught. This also provides opportunities for them to be inquisitive, ask questions and discover things for themselves. Children are encouraged to apply their skills in maths, such as collecting, presenting and analysing data (e.g. tally charts, graphs and charts) during experiments and investigations. Key vocabulary for each unit is displayed and used in science lessons. Through these lessons, we intend to inspire pupils to develop a love of science and help them understand how it shapes the world around them.

**Impact** The successful approach to the teaching of science at South Kirkby Academy will result in a fun, engaging, high quality science education, that provides children with the foundations for understanding the world that they can take with them once they complete their primary education. Formative assessment is used as the main tool for assessing the impact of Science at South Kirkby Academy as it allows for misconceptions and gaps to be addressed more immediately rather than building on insecure scientific foundations.

**By the time they leave South Kirkby Academy in Year 6, we expect the vast majority of our children to:**

- *demonstrate a love of science work and an interest in further study and work in this field*
- *retain knowledge that is pertinent to Science with a real-life context.*
- *be able to question ideas and reflect on knowledge.*
- *be able to articulate their understanding of scientific concepts and be able to reason scientifically using rich language linked to science.*
- *Demonstrate mathematical skills through their work, organising, recording and interpreting results.*
- *work collaboratively and practically to investigate and experiment.*
- *Reason scientifically by following a line of enquiry, using their knowledge of relationships and generalisations, and justify their ideas.*



# The Journey of Science at



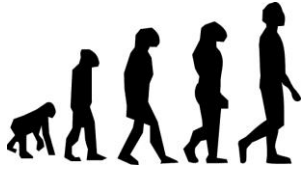
KS3



Assessment Point

Y6 Spring

Classification of Living Things  
Evolution and Inheritance



Y6 Autumn  
Light  
Electricity



Y5 Spring  
Materials  
Circle of Life

Y5

Y4 Summer  
Sound  
Electricity



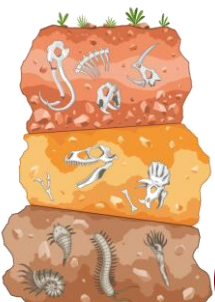
Y3 Spring

Forces and Magnets  
Plants



Y3

Y3 Autumn  
Rocks, Soils and Fossils  
Food and Our Bodies



Y6 Summer  
Healthy Bodies



Y5 Summer

Growing Up and Growing Old



Y5 Autumn  
Space  
Forces

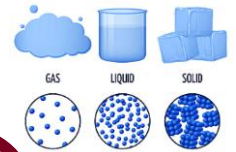


Y4 Spring

Teeth and Digestion  
Living things



Y4 Autumn  
States of Matter  
The Water Cycle

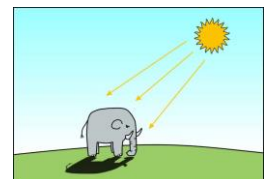


Y4



Y3 Summer

Light and Shadows



KS1