



## **Royston St John Baptist C of E Primary School**

### **Science Curriculum Journey**

We have developed a bespoke knowledge-rich curriculum which gives children access to broad knowledge at Royston St John the Baptist Primary. We have a well sequenced programme that builds knowledge and vocabulary in a well thought out way and ensures that learning is remembered for the long term. We ensure content meets and exceeds the national curriculum. Content is planned so that more difficult abstract concepts are covered in different contexts over time.

Pupils use their studies to develop their writing and many units of work will contain essays for the children to write based on what they have learned. These essays provide opportunities to children to answer our 'Big Question' and demonstrate their learning.

At Royston St John Baptist CE Primary School, we value Science. A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Scientific enquiry skills are embedded in each topic the children study and these topics are revisited and developed throughout their time at school. Topics, such as Plants, are taught in Key Stage One and studied again in further detail throughout Key Stage Two. This model allows children to build upon their prior knowledge and increases their enthusiasm for the topics whilst embedding this procedural knowledge into the long-term memory.

In the terms where science is not explicitly taught in year groups, teachers will use this opportunity to build in further retrieval practice activities, ensuring the knowledge that has been developed, is being retained for the long term.

# Key Stage 1 Journey

## Year 1 – Autumn 1

**Theme:** Seasonal Changes and Plants

**Strand:** Earth Science and Biology

**Key Text:** Tree Lady / Tree

## Year 1 – Autumn 2

**Theme:** Everyday Materials

**Strand:** Chemistry

**Key Text:** The Three Billy Goats Fluff

## Year 2 – Autumn 2

**Theme:** Living Things and Life Cycles

**Strand:** Biology

**Key Text:** The woods

## Year 1 – Spring 1

**Theme:** Animals including Humans

**Strand:** Biology

**Key Text:** Me and my amazing body

## Year 2 – Spring 1

**Theme:** Plants and Animals

**Strand:** Biology

**Key Text:** It starts with a feed / Once there were giants

## Year 2 – Summer 1

**Theme:** Everyday Materials

**Strand:** Chemistry

**Key Text:** Let's build a house

# Lower Key Stage 2 Journey

## Year 3 – Autumn 1

**Theme:** Rocks and Fossils

**Strand:** Chemistry and Earth Science

**Key Text:** The pebble in my pocket

## Year 3 – Spring 1

**Theme:** Light/Forces and Magnets

**Strand:** Physics

**Key Text:** The Dark / Magnet Max

## Year 4 – Autumn 1

**Theme:** Animals including Humans

**Strand:** Biology

**Key Text:** Who eats what?

## Year 3 – Summer 1

**Theme:** Plants and Animals

**Strand:** Biology

**Key Text:** We are the gardeners

## Year 4 – Spring 1

**Theme:** Sound/Electricity

**Strand:** Physics/Chemistry

**Key Text:** Peace at last / Charging about

## Year 4 – Summer 2

**Theme:** Living Things and Habitats

**Strand:** Biology

**Key Text:** How animals build

# Upper Key Stage 2 Journey

## Year 5 – Autumn 1

**Theme:** Earth and Space

**Strand:** Earth Science

**Key Text:** Here we are

## Year 5 – Spring 1

**Theme:** Forces/Changes of Properties

**Strand:** Physics/Chemistry

**Key Text:** Gravity / Why is ice slippery?

## Year 6 – Autumn 2

**Theme:** Light/Electricity

**Strand:** Physics

**Key Text:** On a beam of light

## Year 5 – Summer 2

**Theme:** Living Things and their Habitats  
and Animals including Humans

**Strand:** Biology

**Key Text:** Life Cycles / Hair in funny  
places

## Year 6 – Spring 1

**Theme:** Living Things and Their  
Habitats

**Strand:** Biology

**Key Text:** Living Things

## Year 6 – Spring 2

**Theme:** Evolution and Adaption and  
Animals including Humans

**Strand:** Biology

**Key Text:** The Story of Life / Keeping Fit