



SUMMARY OF APPROACH TO SCIENCE NEW END PRIMARY SCHOOL



At New End Primary School our vision is to give children a science curriculum which enables them to explore and discover the world around them. To achieve this, we encourage curiosity and questioning through exciting, hands-on experiences.

We believe that science is good when...

- *Children are curious and ask questions*
- *It is enquiry based and practical*
- *It is child-led and children discover for themselves*
- *It is open-ended and children enjoy themselves*

Intent

At New End, we aim to:

- Provide a high quality science education embedded with meaningful, memorable learning experiences
- Prepare our children for life in an increasingly scientific and technological world today and in the future
- Promote a love of science and inspire them to consider a future career in science
- Increase children's scientific knowledge, understanding and vocabulary
- Enable pupils to build on and link prior learning with new learning
- Foster a sense of wonder about the natural phenomena through our broad and balanced curriculum

Implementation

Well-planned and resourced Science lessons are timetabled weekly. They are taught in a progressive way where skills are built on each year and topics are revisited to extend children's knowledge and understanding. Children are assessed on a regular basis and lessons are differentiated where needed. Pre- and post-unit assessments and tests are used to determine progress.

In-school workshops and trips to places such as the Science Museum, the Francis Crick Institute, the Royal Observatory at Greenwich provide worthwhile and exciting learning opportunities beyond the classroom. We have links with a local secondary school and visit their science laboratories.

Through investigation and working scientifically, children will be developing the key skills of:

- observing over time
- researching
- carrying out fair tests
- seeking patterns
- identifying and classifying

Our topic overview:

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Humans	Animals	Light	Earth and Space Sound	Living things and their habitats	Forces
Reception	Humans	Animals	Light	Earth and Space Sound	Living things and their habitats	Forces
Year 1	Seasonal Change Animals including Humans	Seasonal Change Animals including Humans	Seasonal Change/Uses of Everyday Materials	Seasonal Change/Uses of Everyday Materials	Seasonal Change/Plants	Seasonal Change/Plants
Year 2	Living things and their habitats	Living things and their habitats	Uses of Everyday Materials	Uses of Everyday Materials	Animals including humans	Plants
Year 3	Rocks and Soils	Animals including humans	Forces and Magnets	Light	Plants	Plants
Year 4	Animals including humans	Sound	States of Matter	States of Matter	Electricity	Animals/Plants and Habitats
Year 5	Animals including humans	Earth and Space	Forces Sound	Forces Sound	Properties and Changes of Materials	Living things and their habitats
Year 6	Living things and their habitats	Evolution and Inheritance	Light	Animals including humans	Electricity/ Science Inventors	KS2 Review

Impact

Our pupils will have:

- A wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry/investigative skills
- Meaningful, memorable learning experiences that will last a lifetime
- An understanding of their local area, science and possible future careers
- Experience of working with other schools in our local area
- A richer vocabulary which will enable to articulate their understanding of taught concepts
- High aspirations