



## Science Curriculum at Sywell Church of England Primary School

### Intent

The intent of the Science curriculum at Sywell Church of England Primary School is to provide the foundations which allow children to understand the world around them. We help children to see how science has changed the world and our lives. Pupils are taught the knowledge, processes and uses of science through the power of explanation and investigation. The aim of science within the school is to develop curiosity and excitement about the world we live in.

### Implementation

At Sywell Church of England Primary School we provide a progressive curriculum which develops the way in which children work and think scientifically. Where possible science is linked to class topics and taught discretely through topic lessons which build scientific skills through questions and investigations.

As a school with mixed year groups, the science curriculum is taught on a two year cycle to ensure each Key stage has complete coverage of the curriculum. Science lessons at Sywell give children the opportunity to:

- use high quality resources and equipment which allow all children to access the curriculum
- build on their natural curiosity of the world around them
- Use scientific methods of investigation including observing, measuring, recording, predicting, interpreting, explaining and evaluating
- Make links between science, other subjects and the world they experience
- Use teamwork, effective communication and independence to build knowledge and understanding through activity, experiments and discussion
- Experience moments of wonder which inspire children to think more deeply about science.

## Science Coverage

We are using schemes of work provided by the Hamilton Trust, which covers the objectives of the National Curriculum. This uses a hands-on approach to scientific learning and teaches children to use and develop effective methods of scientific enquiry. We have matched scientific areas as best we can to the whole school termly learning topics. An overview is provided below. We are linked with a local secondary school in order to obtain additional resources and to access learning workshops.

Topic	Class 2	Class3	Class 4
<b>Year A</b>			
Britain Through the Ages	Everyday materials- Brilliant Builders (exploring)	Living things and their habitats-a World of Living Things	Properties of materials-special effects
	Animals Including Humans-Amazing Me	Animals including Humans -- Circle of Life	Evolution and Inheritance-survival
Food Glorious food	Living things and their habitats-Food chains	Living Things and Their Habitats - habitat Helpers	Living things and their habitats-the Classification Code
	Plants-Growing Things	Animals including humans-Fit for Success	Property of Materials - Material Consultants
Elements and Nature	Animals Including Humans- Wild and Wonderful Creatures	Plants - Feast of Flowers, fruits and seeds	Forces-Welcome to Force Land
	Seasonal Changes-Wild Weather	States of Matter-What's the Matter	Revision - Medical Manoeuvres
<b>Year B</b>			
Around the World in 80 Days	Animals including humans- People and their pets	Electricity-electric personalities	Living things and their habitats-illustrating life cycles
	Seasonal Changes - Weather Art	Plants - Greatly Green Growers	Animals including humans-the human spec
Hey Presto	Everyday Materials-Brilliant builders (waterproof)	Light-Shining the Light	Light-Theatre
	Living things and their habitats-Habitats and homes	Sound-Sounds Spectacular	Electricity-electric art
Digging deep and Soaring High	Plants-Art and Nature	Rocks-this planet rocks!	Earth and Space-Space
	Everyday Materials-Exploring Changes	Forces and magnets - Magnetic Fun and Games	Revision - Sensational Science

## Impact

At Sywell Church of England Primary School, our children develop the scientific knowledge, skills and understanding which they apply to their daily lives, local environment, and the world in which they live and beyond. Children develop their ability to enquire, analyse and investigate alongside building a wider range of scientific vocabulary. Through this curriculum, pupils at Sywell Church of England Primary School have the tools and knowledge to create high aspirations for their future study, careers and adult life.