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## Science Policy 2016

*“The important thing is to never stop questioning”  
Albert Einstein*

### MISSION STATEMENT

At Water School our aim is to teach to inspire, motivate and nurture the next generation of creative and critical thinkers. We work in partnership with parents and the community to achieve the highest standards. Our main goal is to encourage our children to be resilient, respectful and independent learners, who are equipped for lifelong learning. Through stimulating, safe learning environments and excellent opportunities to succeed in and out of the classroom, we encourage children's progress and achievements.

### AIMS

At Water Primary School, we believe that a high-quality science provides the basics for understanding the world through biology, chemistry and physics. Science is continually developing and is vital to the world's future, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. We aim to inspire children through thought proving questions and experiments which develop excitement and curiosity about the world around us as well as helping our children acquire a growing understanding of the nature, processes and methods of scientific ideas.

The national curriculum for science aims to ensure that all pupils:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- Are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

### CURRICULUM AND SCHOOL ORGANISATION

The programmes of study for science are set out year-by-year for key stages 1 and 2 in the national curriculum. Class teachers are responsible for ensuring that all of the relevant statutory content is covered within a two year rolling study. The allocation of topics to terms matches that of the Lancashire Themes, which are being used for creative topic planning and teaching in each class. The national curriculum gives a full breakdown of the statutory content to be taught within each unit. Non-statutory guidance is also provided which staff members are encouraged to use.

## SCIENCE PLANNING GRID PER YEAR GROUP & KEY STAGE

YEAR 1	PLANTS	HUMANS	OTHER ANIMALS	EVERYDAY MATERIALS	SEASONAL CHANGES	
YEAR 2	LIVING THINGS & HABITATS	ANIMAL SURVIVAL & GROWTH	HUMAN HEALTH & GROWTH	PLANTS	USES OF EVERYDAY MATERIALS	
YEAR 3	PLANTS	HUMANS HEALTH & NUTRITION	HUMANS: MOVEMENT	ROCKS	LIGHT & ASTRONOMY	FORCES & MAGNETS
YEAR 4	LIVING THINGS & HABITATS	HUMANS - TEETH & EATING	STATES OF MATTER	SOUND	ELECTRICITY	
YEAR 5	HABITATS & LIFE CYCLES	PROPERTIES & CHANGE OF MATERIALS	PROPERTIES OF MATERIALS - REVERSIBLE CHANGES	HUMAN LIFE CYCLES	EARTH & SPACE	Forces
YEAR 6	LIVING THINGS & HABITATS	HUMANS - EXERCISE & CIRCULATORY SYSTEM	EVOLUTION & INHERITANCE	LIGHT	ELECTRICITY	

### ASSESSMENT, RECORD KEEPING AND RECORDING

Assessment is generally the responsibility of the class teacher and is used to:

- Plan future teaching and learning.
- Provide summative information for parents and teachers.

A range of assessment techniques is used including:

- Teacher observation of children working.
- Discussion with and questioning of pupils.
- Marking and evaluation of any written work.
- Evaluation of completed work - by the children as well as the teacher.

### EQUAL OPPORTUNITIES.

It is the responsibility of all teachers to ensure that all pupils, irrespective of gender, ability, race and social circumstance, have access to the music curriculum and make the greatest progress possible.

### SPECIAL EDUCATIONAL NEEDS / INCLUSION.

The school will work to ensure that all pupils including those with special educational needs are provided with an appropriate music curriculum. In order to achieve this, teachers will work to:

- Set suitable learning challenges.
- Respond to pupils' diverse learning needs.
- Overcome potential barriers to learning and assessment for individuals and groups of pupils.

### AGT

Able, Gifted and Talented children should be identified and noted on the school AGT register. Appropriate opportunities should be provided for them to share and develop their talents. The teacher should ensure that children are suitably challenged and extended within the lessons.

This policy is in line with other school policies and is a true reflection of the Science provision offered at Water Primary School.

*Miss B Lofthouse*  
 Science Coordinator  
 December 2016