Science Curriculum

Where Pupils Succeed

At Willington Primary School, we aim for our children to foster a deep love and understanding of science and an awareness and knowledge of science in the real world and their everyday lives. We aim to provide a high-quality science curriculum that prepares our children for life in the 21st century. We aim to provide a progressive and challenging curriculum, which is meaningful, relevant and enjoyable and develops skills for lifelong learning.

Our science lessons follow the National Curriculum (2014) and units are assigned to each year group. Lessons develop both scientific knowledge and scientific skills, encouraging children to 'work scientifically'. Sessions are practical, wherever possible, and take place within the classroom, school environment and wider community and world.

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	CLL- Attention and Understanding ELG: Make comments about what they have heard and ask questions to clarify their understanding. PSED- Managing Self ELG: Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. UtW- The Natural World ELGs: • Explore the natural world around them, making observations and drawing pictures of animals and plants. • Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. • Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.	**Working Scientifically**	**Working Scientifically**	**Working Scientifically**	**Working Scientifically**	**Working Scientifically**	**Working Scientifically**
Biology: Living Things and their Habitats			Suitable habitats/simple food chains		Grouping & simple classifying	Life cycles	Classifying including microorganisms
Biology: Animals, Including Humans		Naming animals & body parts	Health and growth	Nutrition and skeletons	Teeth, eating & digestion, food chains	Changes in humans as they grow	Health and circulation
Biology: Plants		Names and structures	Conditions for growing	Functions of parts & life cycles		Reproduction of plants (in life cycles)	
Chemistry: Materials		Everyday materials	Uses of everyday materials	Rocks	States of matter	Properties and changes of materials	
Physics:				Light	Sound		Light
					Electricity		Electricity
				Forces and magnets		Forces	

Our Science lessons follow the below structure:

Starter

All lessons start with a verbal retrieval practice of the science knowledge and skills covered so far, especially those that are being focused on in the current lesson.

Main Activity

Children are taught new knowledge and skills and given time and opportunities to apply this new knowledge in order to develop their skills. This is through practical experiences, wherever possible. Working Scientifically is embedded within learning rather than separately.

Plenary

Recap of the lessons learning with time for discussions about how pupils feel their learning has progressed and aspects that they found tricky.

At WPS, we ensure our Science curriculum nurtures our core values which underpin our whole school ethos.

Our School Motto	**Where Pupils Succeed**								
Our Core Values	**We REACH for success at WPS**				Respect	Empathy	Aspiration	Collaboration	Honesty
Our Commitment to the 'Willington Way' Character Education	We will Care about our community and the wider world	We will be Helpful	We will be Adventurous	We will be Responsible for our actions and behaviours	We will be Accepting of others	We will Communicate with confidence	We will be Tolerant of each other	We will find Enjoyment in everyday	We will be Reflective learners

SEND

Quality first teaching strategies are used to support all learners.

Learning outcomes are broken down into smaller steps, where appropriate.

Re-visiting content through cross-curricular learning and/or through other activities in school.

Adaptive teaching strategies provide different levels of support, using different resources or adjusting the pace of instruction.

Assessment

Teachers assess what pupils already know and understand before embarking on a learning module.

Teachers provide formative feedback that helps pupils to identify how to improve.

Willington Primary School