

Science Curriculum at Bletchingley Village Primary School and Nursery

Intent, Implementation and Impact

Intent	Implementation	Impact
At Bletchingley, we aim to develop a sense of	In order to meet the aims of the National	The impact of Science can be constantly
excitement and curiosity about natural	curriculum for Science and in response to the	monitored through both formative and
phenomena and an understanding of how the	Ofsted Research review into Science, we have	summative assessment opportunities.
scientific community contributes to our past,	identified the following key strands:	Regular monitoring reviews by the subject lead
present and future.	 Scientific knowledge and understanding of: O 	by: looking at workbooks, floorbooks, talking to
	Biology - living organisms and vital processes. O	children and learning walks, will provide whole
We want pupils to develop a complex knowledge	Chemistry - matter and its properties. O Physics -	school next steps.
of Biology, Chemistry and Physics, but also adopt	how the world we live in 'works'.	
a broad range of skills in working scientifically	 Working scientifically - processes and methods 	Each unit has a unit quiz and a knowledge and
and beyond.	of science to answer questions about the world	skills catcher, which is used at the beginning and
	around us.	end of the unit to provide a summative
We ensure out Science lessons are inclusive and	 Science in action - uses and implications of 	assessment.
meaningful, so all pupils may experience the joy	science in the past, present and for the future.	Opportunities for children to communicate using
of science and make associations between their		scientific vocabulary will also form part of the
science learning and their lives outside the	We use Kapow Primary's Science scheme which is	assessment process in each unit.
classroom.	a spiral curriculum, with essential knowledge and	
	skills revisited with increasing complexity,	Pupils should leave our school equipped with the
Studying science allows children to appreciate	allowing pupils to revise and build on their	requisite skills and knowledge to succeed in key
how new knowledge and skills can be	previous learning. A range of engaging recall	stage 3 Science. They will have the necessary
fundamental to solving arising global challenges.	activities promote frequent pupil reflection on	tools to confidently and meaningfully question
	prior learning, ensuring new learning is	and explore the world around them as well as



Our curriculum aims to encourage critical thinking and empower pupils to question the hows and whys of the world around them. We encourage: • A strong focus on developing knowledge alongside scientific skills across Biology, Chemistry and Physics. • Curiosity and excitement about familiar and unknown observations. • Challenging misconceptions and demystifying truths. • Continuous progression by building on practical and investigative skills across all units. • Critical thinking, with the ability to ask perceptive questions and explain and analyse evidence. • Development of scientific literacy using wide- ranging, specialist vocabulary.	 approached with confidence. The Science in action strand is interwoven throughout the scheme to make the concepts and skills relevant to pupils and inspiring for future application. Cross-curricular links are included throughout each unit, allowing children to make connections and apply their Science skills to other areas of learning. Each unit is based upon one of the key science disciplines; Biology, Chemistry and Physics and to show progression throughout the school we have grouped the National curriculum content into six key areas of science: Plants Animals, including humans Living things and habitats Materials Energy Forces Earth and space Pupils explore knowledge and conceptual understanding through engaging activities and an introduction to relevant specialist vocabulary. As suggested in Ofsted's Science research review (April 2021), the 'working scientifically' skills are integrated with conceptual understanding rather than taught discretely. This provides frequent, but relevant, opportunities for developing 	critically and analytically experiencing and observing phenomena.
	than taught discretely. This provides frequent,	



The scheme utilises practical activities that aid in	
the progression of individual skills and also	
provides opportunities for full investigations.	
Each year group has an exploratory 'Making connections' unit that delves beyond the essential curriculum, assimilating prior knowledge and skills to evoke excitement and to provide an additional method of assessing scientific attainment as well as links to STEM learning.	
We are in inclusive school and adapt all our	
lessons to enable children to access and present	
learning in an appropriate way for them.	
Individual learning is record in individual	
workbooks and whole class learning is recorded	
using floorbooks, pictures and videos.	
Strong subject knowledge is vital for staff to	
Strong subject knowledge is vital for staff to	
deliver a highly effective and robust Science	
curriculum. Each unit of lessons includes multiple	
teacher videos and resources to develop subject	
knowledge, target fundamental misconceptions	
effectively and support ongoing CPD.	