



## Science at Moredon (Intent, Implementation and Impact) – Curriculum Design

### Intent Why do we teach this? Why do we teach it in the way we do?

At Moredon Primary and Nursery School we want to ensure that our pupils develop the skills needed to be able to be inquisitive and enthusiastic scientists, curious about the world around them. They should have knowledge taught to them that allows them to build on prior learning, facilitating and them on their **learning journey**, and begin to make links between their areas of knowledge. Our intent is for all our children to be life-long learners, who are inquisitive and independent thinkers, consistently seeking and **discovering new horizons**.

We aim to nurture an interest in the world around them and a constructive concern about the environment and the effect they have in their actions.

### Implementation What do we teach? What does this look like?

Our curriculum (from EYFS up to Year 6) is shaped by our school vision, which aims to enable all children, regardless of background, ability and additional needs, to flourish and become the very best version of themselves they can possibly be. Where possible, we link subject areas to provide a purpose for science; this is only done where it is relevant. We want science to be real for our pupils and so want to expose them to a range of experiences both within the classroom but also to provide them with trips and visitors, further enriching their learning.







We have designed a curriculum that makes links so that a depth of learning is experienced and schemes of work are not in isolation but build overtime. We ensure that there is progression and that the scientific focus differs within the same topic taught in different year groups. We plan for exciting and engaging practical lessons which allow the children to learn by doing; developing their predictions of outcomes; recording and interpreting data and thoughtfully considering their conclusions.

Older children are encouraged to develop their investigative skills and their areas of interest, allowing them to design their investigations and analysing data and results to come to their own conclusions.

We use a tiered approach to vocabulary that gives the pupils the technical language of the subject and builds on what they already know.

We use creative assessment (TAPS) to inform our planning and ensure knowledge and understanding.

## MOREDON PRIMARY & NURSERY SCHOOL SCIENCE OVERVIEW

	Autumn term		Spring Term		Summer Term	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<b>Animals, including humans</b> 	<b>Seasonal Changes</b> 	<b>Animals, including humans</b> 	<b>Seasonal Changes</b> 	<b>Everyday materials</b> 	<b>Plants</b> 

Year 2	<b>Everyday materials and their uses</b> 	<b>Animals, including humans</b> 	<b>Living things &amp; their habitats</b> 	<b>Everyday materials and their uses - properties</b> 	<b>Plants</b> 		
Year 3	<b>Rocks</b> 	<b>Animals, including humans</b> 	<b>Plants</b> 	<b>Forces &amp; Magnets</b> 	<b>Light</b> 		
Year 4	<b>Living things &amp; their habitats</b> 	<b>Animals including humans</b> 	<b>Electricity</b> 	<b>Animals including humans-food chains</b> 	<b>Sound</b> 	<b>States of matter</b> 	
Year 5	<b>Living things &amp; their habitats</b> 	<b>Space</b> 	<b>Forces &amp; Mechanisms</b> 	<b>Properties and changes of materials</b> 	<b>Animals, including humans</b> 		
Year 6	<b>Evolution &amp; Inheritance</b> 	<b>Animals including humans</b> 	<b>Living Things &amp; their habitats</b> 	<b>Properties and changes of materials</b> 	<b>Light</b> 	<b>Electricity</b> 	

**Working Scientifically**  
 Planning, Observing, Recording, Concluding, Evaluating,

**Impact** What will this look like?

By the time children leave our school, they will be confident to think independently and critically about the world around them. They will have the knowledge and skills to apply to problems and concepts they meet in secondary school and beyond. As life-long learners, they will leave us with enthusiasm, curiosity, concern and preparedness to go out and discover our ever-changing world.