



Amberley CE Primary School



St. James' CE Primary School,
Coldwaltham



Enabling every child to thrive and succeed

At Arun Villages Federation, we care for EVERYONE. We embrace challenges and all opportunities to learn, recognising the value of education and persevering even when it feels difficult.

We are uncompromising in our aspirations, proud of our – and each other's - achievements and look forward to embracing the experiences the wider world offers.

Respect, Kindness, Honesty, Positivity and Teamwork

Science

Intent

It is our intention to develop in all young people a lifelong curiosity and interest in the sciences. When planning for the science curriculum, we intend for children to have the opportunity, wherever possible, to learn through varied systematic investigations, leading to them being equipped for life to ask and answer scientific questions about the world around them. As children progress through the year groups, they build on their skills in working scientifically, as well as on their scientific knowledge, as they develop greater independence in planning and carrying out fair and comparative tests to answer a range of scientific questions. We want the children to consolidate and retain the science knowledge they have learnt and also reinforce key scientific vocabulary from each area of study.

Implementation

The acquisition of key scientific knowledge is an integral part of our science lessons. The progression of skills for working scientifically are developed through the year groups and scientific enquiry skills are of key importance within lessons. The progression of these skills is set out in the Science Progression Map. Each lesson has a clear focus. Scientific knowledge and enquiry skills are developed with increasing depth and challenge as children move through the year groups. They complete investigations and hands-on activities while gaining the scientific knowledge for each area of study. The sequence of lessons helps to embed scientific knowledge and skills, with each lesson building on previous learning. There is also the opportunity to regularly review and evaluate children's understanding. Activities are effectively accessible to all so that all children have an appropriate level of support and challenge. Enabling us to deliver high-quality teaching and learning opportunities while making them aware of possible scientific misconceptions.

Impact

In Science, progress is measured through a child's ability to know more, remember more and explain more. The learning environment across the school will be more consistent with science technical vocabulary displayed, spoken and used by all learners. Whole-school and parental engagement will be improved through the use of science-specific home learning tasks and shared use of resources. Children who feel confident in their science knowledge and enquiry skills will be excited about science, show that they are actively curious to learn more and will see the relevance of what they learn in science lessons to real-life situations and also the importance of science in the real world.

Science Overview – Key Stage 1 Cycle A

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>Understanding of Our World</p> <p>Communication & language</p> <ul style="list-style-type: none"> • Learn new vocabulary. • Ask questions to find out more and to check what has been said to them. • Articulate their ideas and thoughts in well-formed sentences. • Describe events in some detail. • Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. • Use new vocabulary in different contexts <p>Personal, social and emotional development</p> <ul style="list-style-type: none"> • Know and talk about the different factors that support their overall health and wellbeing: • regular physical activity • healthy eating • brushing teeth • sensible amounts of 'screen time' • having a good sleep routine • being a safe pedestrian <p>People, Culture & Communities</p> <ul style="list-style-type: none"> • Describe their immediate environment using knowledge from observation and discussion. <p>The Natural World</p> <ul style="list-style-type: none"> • 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 own experiences and what has been read in class. • Understand some processes and changes in the natural world around them including the seasons and changing states of matter. 					

Year 1 and 2	Animals Including Humans	Everyday Materials year 1	Seasonal Changes		Plants	
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Science Overview – Key Stage 1 Cycle B

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>Understanding of Our World</p> <p>Communication & language</p> <ul style="list-style-type: none"> • Learn new vocabulary. • Ask questions to find out more and to check what has been said to them. • Articulate their ideas and thoughts in well-formed sentences. • Describe events in some detail. • Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. • Use new vocabulary in different contexts <p>Personal, social and emotional development</p> <ul style="list-style-type: none"> • Know and talk about the different factors that support their overall health and wellbeing: • regular physical activity • healthy eating • brushing teeth • sensible amounts of 'screen time' • having a good sleep routine • being a safe pedestrian <p>People, Culture & Communities</p> <ul style="list-style-type: none"> • Describe their immediate environment using knowledge from observation and discussion. <p>The Natural World</p>					

	<ul style="list-style-type: none"> • 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 own experiences and what has been read in class. • Understand some processes and changes in the natural world around them including the seasons and changing states of matter. 					
Year 1 and 2	Living Things and Their Habitats		Use of Everyday Materials Year 2		Plants	

<https://www.stem.org.uk/cpd/516435/teaching-eyfs-science>

<https://www.firstdiscoverers.co.uk/early-years-science-activities-eyfs/>