



Heathfield Schools' Curriculum Overview

Science

Subject	Intent	Implementation	Impact
Science	<p>The science curriculum will ensure that children will be able to:</p> <ul style="list-style-type: none"> • Acquire scientific knowledge through a practical based curriculum. • Develop their understanding of the different types of scientific enquiry approaches. • Independently use and apply scientific enquiry skills. • Understand and use scientific vocabulary accurately. 	<p>The schools' science progression documents outline the knowledge and skills that will be covered in each year group. In KS1 and KS2 at the start of each topic a knowledge organiser is circulated to parents to help them support their child's learning.</p>	<p><u>Assessment:</u></p> <p>In Nursery and Reception, teachers and Early Years Practitioners use a range of on-going assessment for learning techniques to gather information about children's development within the associated strands.</p> <p>In Key Stages 1 and 2 high quality AfL during lessons (including the recap introduction (KS1) and the WHALA (KS2)), the AfL plenary and marking enables teachers to adapt planning and address misconceptions with individuals as required.</p> <p>As well as this in KS2, a mid-topic quiz is carried out halfway through a topic to assess children's understanding of the key concepts covered so far. This again enables teachers to adapt planning and address any misconceptions with individuals as required.</p>
		<p>EYFS</p> <p>Planning in the moment invites children to be inquisitive and experience awe and wonder. They are encouraged to comment and ask questions about the natural world and things that they have observed (plants, animals, materials). Resources to enhance this learning are available daily and planning focuses on children interests, which support scientific investigations.</p>	
		<p>Key Stage 1</p> <p>Science is taught once a week in KS1. The emphasis of the curriculum is on children acquiring knowledge through a range of different scientific enquiries. Learning objectives are in the form of a question, which will then be explored and answered by the end of the lesson, therefore reflecting how a scientist works. Within every lesson, a recap introduction is used at the start to prompt and link to knowledge from previous lessons. At the end of each lesson, an AfL plenary is used to assess the key knowledge and skills that should have been acquired.</p>	

		<p>Key Stage 2</p> <p>Science is taught at least once a week in KS2. The knowledge and scientific skills/enquiry progression documents provide the starting points for year group planning and are adapted where appropriate for the current needs of the pupils. The emphasis of the curriculum is on children acquiring scientific knowledge through a range of different scientific enquires that enable the pupils to use and apply their scientific skills. Learning objectives are in the form of a question, which will then be explored and answered by the end of the lesson, therefore reflecting how a scientist works. Within every lesson, a WHALA is used at the start to prompt and link to knowledge from previous lessons. At the end of each lesson, an AfL plenary is used to assess the key knowledge and skills that should have been acquired.</p>	<p>In both KS1 and KS2 one child in each class is tracked to provide benchmark information to complete a whole class summary sheet at the end of each topic: working scientifically and scientific knowledge.</p> <p><u>Monitoring:</u></p> <p>Members of the Senior Strategy Team, Year Group leaders and Phase specific subject leaders undertake a range of monitoring activities across a year that include:</p> <ul style="list-style-type: none"> • “Pop ins”/learning walks • Book and planning scrutinies • Pupil interviews • Staff interviews • Review of assessment sheets
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