Priority: Science & Forest School	Subject Leaders:	Jade O'Regan & Maxine Humphries 2024-2025

## Maintenance targets and strengths:

- The quality of education provided at our school is exceptional and senior leaders ensure that the school's curriculum intent is embedded securely and consistently throughout the school. Each curriculum journey has been planned to enable pupils to develop their skills, knowledge and understanding as they move from Nursery through to the end of key stage 1. The science curriculum in an exciting, stimulating and vibrant way of making cross-curricular links to other subjects and utilising enrichment opportunities, such as high-quality workshops and educational visits.
- The curriculum is planned within the context of the Early Years Foundation Stage Framework (EYFS) and the national curriculum and has been carefully planned and sequenced, allowing coherent progression towards defined end points and equipping pupils well for their next stages in education. Teachers provide adapted learning experiences to ensure all pupils can access learning, to achieve high standards in science so that the proportion of pupils achieving the expected standard in Year 2 matches or exceeds the national average.
- Formative assessment enables teachers to adapt their planning and identify pupils at risk of falling behind. Accurate teacher assessment helps identify and address pupils' needs.
- Subject leaders continue to monitor the delivery of the curriculum with a focus on vocabulary development and supporting the lowest 20%. They ensure that a wide range of high quality, attractive resources are available to support children in the learning, including technology. The subject leader continues with a robust monitoring schedule, including:
  - -observations of teaching and learning
  - -planning scrutiny
  - -work sampling
  - -moderation of teacher assessments
  - -activities to seek the views of pupils
  - -monitoring of displays.

## **Development Targets:**

- Review and reshape the curriculum where necessary across the school to ensure coverage, consistency and progression including vocabulary.
- Develop pupils' language skills so that they have a wide scientific vocabulary and can express themselves confidently.
- To continue to implement learning and activities as part of our Woodland Trust Platinum Award to engage pupils in outdoor learning to boost their well-being.
- New Forest School leader to complete Forest School training.
- New Forest School leader to feel confident in delivering the Forest School curriculum and cascading to colleagues.
- Continue to run Forest School activities to boost wellbeing of all Year 1 pupils.
- Forest School or outside learning to begin in Year Two to boost welling of all Year 2 pupils.
- To explore 'Crest' awards as part of science week March 2025.
- Engage with the pupils to explore the schools new solar panel scheme and what it means for the school and the environment.
- To plan whole school investigations to raise the profile of the 'Working Scientifically' skills which are found in the key stage 1 national curriculum. The whole school investigations will show the progression of how each year group collates and records their data/results.

## **Key priorities in SIP 2024/25:**

Priority 1 – Continue to ensure that all pupils, including those with special educational needs and disabilities (SEND) and the lowest 20%, achieve as highly as possible across all areas of the curriculum, with particular focus on science and on streamlining our curricula intent and implementation to embed lifelong learning skills while ensuring that children have increased opportunities to learn practically and through play.

Priority 2 – Continue to ensure that the well-being needs of our children are met to the highest degree by further enhancing the strong provision for our pupils with SEND and advancing and prioritising well-being throughout the school community.

	Science Action Plan 2024-2025	
Observations	Planned date	Date achieved
Nursery	Spring 1	
Reception	Spring 1	
Year 1	Summer 1	
Year 2	Summer 1	
Monitoring planning	Planned date	Date achieved
Nursery	On-going throughout the year	
Reception		
Year 1		
Year 2		
Pupil voice / book discussion	Planned date	Date achieved
Nursery	On-going throughout the year	
Reception		
Year 1		
Year 2		
Moderation	Planned date	Date achieved
Nursery	Spring 1	
Reception	Spring 1	
Year 1	Summer 1	
Year 2	Summer 1	

Development Targets:					
Target	Input, activities and tasks	Timescale	Cost / budget heading / resources	Monitoring	Success Criteria
PRIORITY 1:	To monitor and assess children's progress after each	September	Staff time	Science curriculum	Gaps identified and
Continue to ensure	unit of work and address any gaps.	2024 –		leads	addressed.
that all pupils,		throughout the			
including those with		year 		Class teachers	
special educational	Whole school investigations.	'	Staff time	Science curriculum leads	Pupils have the opportunity to
needs and disabilities		2024 –	0	Class to a decide	carry out practical
ISTIVITATIO INP	To plan whole school investigations to raise the	throughout the vear	resources	Class teachers	investigations in science that help them to develop their
INMACT 711% 2CHIAVA	profile of the 'Working Scientifically' skills and	year	resources		scientific skills.
ac highly ac naccible	support the children with developing these inquiry skills which are part of the key stage 1 national				SCIETUTIC SKITS.
la avaca all avaca af tha	curriculum.				Pupils have the opportunity to
curriculum, with	carricularii.				carry out many different types
particular focus on	The whole school investigations will highlight the				of investigation throughout
	progression of how each year group collates and				their science learning.
	records data/results.				
curricula intent and	,				Pupils develop a sense of awe
implementation to	To explore 'Crest' awards (inquiry-based project				and wonder about the world
•	work) as part of science week March 2025.				around them and are excited
learning skills while					about their science learning.
ensuring that children					All staff are aware of the
have increased					'Crest' awards and successfully
opportunities to learn					implement scheme to enhance
practically and					children's science provision.
through play.					
	Share in staff meeting the HFL Working	September	Staff meeting time	Science curriculum	Teachers feel confident in
	scientifically building blocks EYFS - KS2 and	2024		leads	planning
	Progression in working scientifically skills.				lessons/investigations in which
	, , , , , , , , , , , , , , , , , , ,			Class teachers	enables the pupils to develop their scientific inquiry skills.

Teachers to identify the working scientifically skills that are being taught in each lesson and modify the science curriculum journey accordingly.				Teachers feel confident in assessing the pupils' scientific inquiry skills.
Teachers to share key vocabulary with classroom support staff at the start of a new unit of work to ensure all staff are using the same vocabulary with pupils.  Revisit all key vocabulary to ensure it matches the key learning.	2024 – throughout the year	Staff time		Children have a deep understanding of key vocabulary and can use it accurately.
Through lesson observations, make sure the key learning is streamlined, and tighter and direct teaching is very focused, specific and time measured.  Direct teaching on the carpet to be reduced to the minimum requirement (twice the child's age as a guideline)	September 2024 – throughout the year.	Staff time	Class teachers	Effective learning happening during science lessons. Pupils are not just attending to direct instruction or doing the activities planned but are substantively <i>engaged</i> as they do so. The pupils put forth cognitive effort, actively participate, and commit to the task. All pupils including those with SEND have the opportunity to learn without the barrier of having to focus for long periods of time.
All staff to model specific and correct vocabulary to pupils.	September 2024 – throughout the year		leads	Pupils have a deep understanding of key vocabulary and can use it accurately.
To utilise outside areas including the woodland area during science lessons for effective and engaging learning.		School budget	Class teachers	Pupils develop a sense of awe and wonder about the world around them and are excited about their science learning.

New Forest School leader to complete Forest School Pupils' well-being is boosted. training. Pupils develop an appreciation New Forest School leader to feel confident in and respect for the natural world. delivering the Forest School curriculum and cascading to colleagues. Pupils including those with Forest school/ outside learning to be rolled out into SEND make good progress in science and develop their Year 2. knowledge and understanding All year groups have at least one local walk in the area as they are of the school per year and clearly identify which experiencing/observing learning objectives are met by the walk. science in real life and not just through a textbook. Work towards Woodland Trust Platinum Award to Benefits of learning outside: engage pupils in outdoor learning to boost wellbeing. 1. Improved mental health and well-being. 2. Opportunities for social interaction and collaboration. 3. Promotion of physical health. 4. Increased motivation and self-direction. 5. Support for STEM skills. 6. Reduced stress and symptoms of ADHD. 7. Improved relationship with nature. 8. Enhanced curriculum learning. 9. Healthier immune

systems.

RIORITY 2:	To utilise outside areas including the woodland area	September 2024 Staff time	Science curriculum	All pupils demonstrate
Continue to ensure	during science lessons for effective and engaging	– throughout the School budget	leads	improved mental health and
hat the well-being	learning.	year		well-being.
eeds of our children			Class teachers	
re met to the	New Forest School leader to complete Forest School			
ighest degree by	training.			
urther enhancing the	New Forest School leader to feel confident in			
trong provision for	delivering the Forest School curriculum and cascading			
ur pupils with SEND	to colleagues.			
nd advancing and				
rioritising well-being	Forest school/ outside learning to be rolled out into			
hroughout the	Year 2.			
chool community.	All year groups have at least one local walk in the area of the school per year and clearly identify which learning objectives are met by the walk.  To continue to implement learning and activities as part of our Woodland Trust Platinum Award to engage pupils in outdoor learning to boost their wellbeing.  Nature and Nurture Week for the children to include a yoga workshop, mindfulness activities and promotion of a good understanding of healthy choices.			

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Maintenance Targets:					
Staff CPD	Attend science conference.	Summer 2024	Staff time	Science curriculum leads	New science curriculum leaders develop CPD and ideas to take forward for the next academic year.
	Attend Stevenage subject leader cluster meetings to share resources, ideas and best practise, build links, share strengths and areas for development and encourage collaborative working.	Spring 2024	Staff time	Science curriculum leads	Staff to be fully up to date and informed on current science issues. Cascade to staff.
	Engage children with new solar panel project. Explain to the children what is going to happen and what it means for the school and the environment.	Autumn 2024	Staff time	Science curriculum leads	Good practice shared.
Review -					
To achieve good quality assessment data to show progress made in science using Hertfordshire's Phases/ steps model	Input data on to Arbor each term.  Analyse data from Year 2 end of year scores.	Throughout year	Staff time	Science curriculum leads	Children working at ARE as in line with national average. The science leads to have a clear picture of science progress.  Share with science governor who holds science leads to account of progress made.
Review –	,				
Monitor and evaluate effective teaching and learning of the Science curriculum across the school, ensuring that	Review spiralled science curriculum and working scientifically skills.	November 2024 staff meeting	Staff time	Science curriculum leads	Observations of good quality science teaching.

the curriculum is progressive, engaging,	Planning – embedded throughout key stage 1 using a robust spiralled curriculum journey with a focus on the	November 2024	Staff time	Science curriculum leads	Good quality planning.
and creative and meets pupils' needs.	working scientifically skills.	staff meeting		Class teachers	
meets pupils needs.	Organise timetable for observations in all year groups.	September 2024	Staff time	Science curriculum leads	Teaching is good or better in all science lessons.
	Book look with staff checking against national curriculum criteria.	Spring 1 2025	Staff meetings	Science curriculum leads	Strong evidence of curriculum coverage.
Review –			l	1	

Track vulnerable	Teachers to input science data on a termly basis to track	Throughout	Staff time.	Science curriculum	Progress data indicates that
groups such as PPG,	progress using Arbor.	year.		leads.	rapid progress is being made
SEND, EAL to show					with our vulnerable groups
progress made in					and closing the gap between
Science under the					PPG / non-PPG, SEND /non
Hertfordshire's					SEND, EAL /non EAL groups.
Phases/ steps model.					
Review –					
Plan and deliver	Generate ideas for science activities to staff for National	Spring 2025	National	Science curriculum	Children to gain a rich and
science weeks to	Science Week in March 2025.		Science Week	leads	creative curriculum based on
whole school.			free resources		the topic of growth.

				All staff to deliver	
				science week activities	
	Plan to use 'Crest' awards and roll out to staff to use during science week.	Spring 2025	Staff meeting	Science curriculum leads	Children to gain a rich and creative curriculum
				All staff to deliver science week activities	developing scientific inquiry skills.
	Plan and deliver whole school 'Nature Nurture' week in October 2024.	Autumn 2024	Staff time	Science curriculum leads	Children to gain a rich and creative curriculum based on the topic of
				All staff to deliver science week activities.	'Healthy Bodies and Healthy Minds'
	As part of science week, plan a whole school STEM Day focusing on performing simple tests and recording data.	Autumn 2024	Staff time	Science curriculum leads.	Pupils have the opportunity to carry out practical investigations in science that
				All staff to deliver science week activities.	help them to develop their scientific skills.
					Pupils have the opportunity to carry out many different types of investigation throughout their science learning.
					Pupils develop a sense of awe and wonder about the world around them and are excited about their science learning.
Review –					
Activities to attain the Woodland Trust Platinum challenge will be incorporated into cross-curricular planning.	Science leads to plan timetable for outstanding items to complete the Woodland Trust Platinum Award.	Spring 2025	Staff time	Science curriculum leads	All year groups to participate in activities to contribute to the achievement of Platinum challenge accreditation.

Review –					
Pupil voice	What do children enjoy/find difficult about science?	On-going	PPA/SL time CT feedback	Science curriculum leads	Staff identify and respond to areas of difficulty for children.  Children contribute to school Science display in hall.
	Pupil voice sessions used as an opportunity to discuss and monitor knowledge of key vocabulary across year groups.	On-going	Pupil voice notes	Science curriculum leads Year group leaders	Pupils demonstrate a secure knowledge and understanding of the key vocabulary they have been taught. They are able to articulate what they know and what it means.
Review					
Science displays	Whole school and class science display boards created and updated regularly.		Science leads  Whole school display  CT class displays	Science curriculum leads	Science and Forest School displays to celebrate children's learning.

	Learning wall displays to include 'word walls' listing key vocabulary for the unit of work being taught and ongoing key vocabulary. Staff to refer to the 'word walls' to engage pupils and discuss word meanings, spellings, etc.	On-going	Display boards  Key vocabulary documents	Science curriculum leads. Year group leaders	Pupils are immersed in the key vocabulary they need to know and understand. They are given opportunities to talk about new vocabulary and discuss word meanings.
Review –					