

## **The Orchard School**

## Subject & Curriculum Leadership Report

Subject area Science Subject Leader Joe Elliott						
Da	te		29/09/21			
	Sections		S	Summary evaluation	on	
1	Introduction Why do we teach what we teach?	The principal focus of our teaching of Science at The Orchard is to enable our pupils to experience and observe phenomena, looking closely at the natural and humanly-constructed world around them. We want our children to be curious and ask questions about the world around them, and through discreet teaching, be able to explain their discoveries using scientific vocabulary. Ultimately, we want to develop inquiring minds because we want our children to be curious about Science and excited to learn about the world around them.  We believe in all year groups, Science can provide children with opportunities to develop and practise many different skills and attributes, including communication skills, collaborative skills, team working and perseverance, as well as analytical, reasoning and problem-solving skills. These skills should be transferrable but children should make clear progress with the skills and the language they use.				
2	Curriculum Intent (Include reference to SEND and disadvantaged pupils)	At The Orchard, we aim to encourage and direct children's natural curiosity whilst familiar them with basic scientific vocabulary, helping them begin to make sense of the world arou and gaining some understanding of how things work.				
	Implementation	Science is taught Early Years press opportunity to a initially introduc In Years one and Scheme of Work required in Scier school on develor experiences whe embedding of kr Each year group Books and storie cross curricular I environment and including SEND a opportunities fo introduction imp for carrying out a Science worksho	t both discreetly and in ent their Science through ccess Science related a ed through teacher led I two, Science is taught which ensures that the ce as set out in the Napping independent lear enever possible. We also nowledge.  will build on the vocabes are used as key texts inks are made when suid to support their deveand disadvantaged puping developing all childre proves motivation and cascientific investigation	a cross curricular m gh The Natural Worl ctivities throughout linput and small gro discreetly. Each yea e children continuou tional Curriculum. Thing and in ensuring to adopt a mastery a fullary and practise u in all year groups to aitable. These are use lopment in both scie ils. Use of books wit n's thinking and com concentration and ain. cialist guests are arr	anner, from Reception to Year Two. d. Children in Reception have the their self-initiated learning, but this is up work. It group follows The Orchard Science usly develop the knowledge and skills here is a strong focus throughout the that students are given practical pproach to learning to promote the sing key vocabulary in full sentences. In provide a focus for the learning and the ded to enhance the children's learning tence and in language development, hin science lessons provides stimulating the inmunication skills. Using stories as an allows all of our children to see a reason tranged giving opportunities to develop	

Whole school activities are planned each year to provide the children with an exciting opportunity to see Science in action. Gardening week provides all year groups with a great opportunity to work practically and scientifically in a stimulating way.

Monitoring and evaluation is delivered by subject leaders, team leaders and through teaching staff moderation sessions. Each staff member is trained to speak directly to one another and enquire about the progression in our science teaching and learning. Team leaders should be able to challenge teachers, if it appears that the scheme is not being used effectively to plan and deliver lessons.

Whilst we have been unable to observe one another because of our bubble system, plans are now in place for teachers to observe one another to ensure high quality delivery of our Science curriculum.

## **Impact**

(Include reference to SEND and disadvantaged pupils) Children are actively engaged in well-planned lessons and show progression of knowledge and skills. Children have transferrable enquiry skills that they apply to their scientific understanding in a range of settings and across all subjects. Pupils demonstrate an inquisitive manner towards Science and links are made where possible throughout the school day. Children can work both independently and collaboratively; they know how to ask questions and will develop research skills as well as using scientific vocabulary.

All of our children will be able to access the curriculum and opportunities are made for everyone to make progress. Our SEND and disadvantaged children will be able to explain their observations using the appropriate vocabulary and efforts will be made by our highly trained practitioners to record their observations accordingly.

By the end of Year 2, all children will have been provided with the opportunity to work scientifically by asking and answering questions, carrying out investigations and by starting to notice patterns and links between different areas. Our children learn their intended outcomes. They know more and can do more by the time they leave for their next school.

## 3 Broader curriculum

How does this subject promote elements of the broader curriculum, including SMSC, British Values, Eco-Schools, etc.? At The Orchard we aim to develop responsible citizens who take care of their local environment and community. Children are involved in recycling paper and fruit waste and parents are encouraged to recycle clothes in our clothes bank. Pupils understand the importance of looking after that the environment, and have enjoyed taking care of the school grounds with their family on Grounds Force Day. Children enjoy planting around the school. The curriculum is enriched by visitors, speakers and special events such as Gardening Week. We encourage children to share their languages, cultures, festivals and experiences from around the world. Annually family members are invited to support their children in caring for the grounds of the school, discussing in class the impact of looking after our environment and why we do this.

Children will also learn to make healthy choices about food, drink, physical activities and teeth hygiene. Twice a week, children will take part in a run outside to emphasise the importance of exercise as well as the daily morning exercise routine to start the day.



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6 Teach pupil motive indep literacy steps	Emphasise key skill	,	children using full sentences and scientific vocabulary to explain answers.	
Teach pupil motiv indep literac steps		Strong attainment at the end of Key Stage One, including children with SEND.	Provide opportunities for children to research independently using our range of non-fiction texts.	
Teach pupil motiv indep literac steps		Clear progression between year groups using the scheme of work correctly.	Develop the use of IT to improve research opportunities.	
pupil motiv indep literas steps	ching	Strengths	Areas for Development	
literae steps	her subject knowledge and l expectations, engagement, vation, challenge, progress, pendence, reading and	Teacher engagement with scheme of work ensuring progression of skills through year group	Ensure that teachers are recapping on prior learning and threading together of different topic areas.	
	acy skills, assessment and next in learning. Marking and	Evidence of Science being taught throughout the school.	Ensure that teachers are using every available opportunity to think and talk scientifically.	
		Teachers are confident in their delivery of science teaching.	<ul> <li>Continue to develop assessment opportunities to ensure all of our children are making the required progress.</li> </ul>	
7 Lear	rning Behaviours	Strengths	Areas for Development	
aroun learni	ding behaviour in lessons and and the school, attitudes to ing. Pupils' enjoyment and	Pupils are engaged in science lessons.	Displays of science around the school so we are demonstrating our enjoyment of science at our school.	
	gement in the subject, views pils/parents. Include SMSC.	Pupils enjoy learning about science	Continue to develop assessment opportunities to ensure all of our children are making the required progress.	
		Parents support the children's learning through Groundsforce day, PTA funding and through our clothes bank.	Whole school learning opportunities i.e. workshops and visitors (now that we are able).	
_	dership/Management	Strengths	Areas for Development	
ambit expec	ell leaders demonstrate on, vision, high ations, improve teaching arning, develop staff,	Teachers and SLT high expectations and engagement with subject	Lead Science CPD course to enhance teaching and learning throughout school	
susta: curric	nin improvement. Appropriate culum, equal opportunities, ntal engagement.	Curriculum that caters for all pupils	Science leader to observe Pine Class to ensure the children are making effective progress in their science.	
		Returning subject leader has good subject knowledge.	Lesson observations and work scrutiny (now that we are able).	
9 Over	rall effectiveness	Overall, pupils enjoy Science. They demonstrate transferrable enquiry skills whilst developing a bank of key vocabulary. Children are able to relate their knowledge and understanding in an applied way to their everyday experiences. Pupils, staff and parents give positive responses to the curriculum and outcomes. Children's learning is embedded through a language-rich environment and practical learning. Our non-fiction texts around the school are celebrated and displayed beautifully, and they are used effectively by class teachers to support teaching and learning.		

10	What is a good learner like on leaving The Orchard?	A good learner knows more and can do more. Learning is embedded in their long-term memory and they are able to talk about their learning confidently and coherently. Our children will have mastered their learning and will be able to apply the same skills in different contexts. Good learners are confident, knowledgeable and motivated scientists by the end of year two, and they are able to explain what they know and what they want to know.
11	Key areas for subject development Especially achievement and quality of teaching	<ul> <li>Build re-cap into our lessons regularly and make strong links between and within subjects which will secure knowledge further.</li> <li>Ensure that we are monitoring progress and attainment with the same level of scrutiny as we do in our core subjects.</li> <li>Celebrate science around the school and reflect this with displays, visitors and workshops.</li> </ul>