

Science Development Plan 2022/23

Led by S. Magill

Main Areas of Development	Reason/Evidence
Children's ability to communicate new knowledge of science.	This demonstrates an increased knowledge of the subject taught. Children can use the correct scientific vocabulary.
Make science accessible and enjoyable to all	Children to understand science can be a valuable career to anyone
Increase the profile of science	Increase children's awareness, appreciation and understanding of science in school

<i>Overall target</i>		Children to increase their use of correct scientific vocabulary.							
Action to be taken	Success Criteria and Impact on Learning and Standards.	Lead Person	Monitoring	Evaluation	Cost/ Resources	Milestone 1 December 2022	Milestone 2 April 2023	Milestone 3 July 2023	
i	Children to be able to talk about science using correct vocabulary.	SM	Pupil discussions/ interviews and book monitoring		Free Science subject time	Initial interviews completed and evaluated. Any areas of concern or good points fed back to staff. Children can use knowledge organisers to assist them with key vocab.	Staff have used the initial interviews to help shape their next set of lessons.	Children can talk fluently about all areas of the curriculum delivered to them this year. They demonstrate a love of science through their answers.	
ii	Children to show an increased positive attitude toward science.	SM	Pupil discussions/ interviews and book monitoring		Free Science subject time	Initial interviews completed and evaluated. Any areas of concern or good	Children report increased happiness and eagerness for science.	Children can talk fluently about all areas of the curriculum	

Science Development Plan 2022/23

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		positivity will improve behaviour for learning within science.					points fed back to staff.		delivered to them this year. They demonstrate a love of science through their answers.

Overall target		Every science topic to show a practical element of working scientifically.							
Action to be taken	Success Criteria and Impact on Learning and Standards.	Lead Person	Monitoring	Evaluation	Cost/ Resources	Milestone 1 December 2022	Milestone 2 April 2023	Milestone 3 July 2023	
i	Class teachers to identify a topic that they struggle to work scientifically/practically in.	Staff to identify any topic that they struggle to work scientifically or use a scientific key skill in. Subject lead to help with planning and teaching of this. Through this, teachers are to feel an increased confidence in teaching that element of the curriculum. Staff share good practice.	SM	Book scrutiny Planning Before and after evaluation		Book scrutiny time. Team teach time (if required).	Staff to have identified any area that they require support in. Planning to start with teachers that require it.	Staff to be teaching with key skills/ working scientifically and can produce evidence for this. Planning to be completed with increased	All topics to have demonstrated working scientifically/ key science skills. Staff to report increased confidence in teaching that

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								independence.	area. Staff to report back to others the successes they have had this year in working this way.
ii	Every class to demonstrate an element of working scientifically/ using a scientific key skill for each topic taught.	Every topic will have used a practical, hands on lesson. Practical lessons used to help with misconceptions. Children can talk about the lessons and what they learned from it. Can KS2 use this to make generalisations?	SM	Book scrutiny/ child interviews.		None	Topics to include at least one practical lesson.	Increase in practical lessons to help identify misconceptions.	Staff to report back to others the successes they have had this year in working this way.
	Staff to try and link a piece of fieldwork/ educational visit/ visitor to a science topic taught.	Staff will try to link a piece of fieldwork/ educational visit/ visitor for their class that is appropriate to their topic. Children can use this to talk about their learning.	SM	Child interviews/ trips booked		Trip costs. Hopefully part funded by PTA	Potential trips to be identified	Visits/ visitors booked or to have taken place.	Visits/ visitors to have been undertaken.

Overall target	Staff to be following planned and sequenced document							
Action to be taken	Success Criteria and Impact on Learning and Standards.	Lead Person	Monitoring	Evaluation	Cost/ Resources	Milestone 1 December 2021	Milestone 2 April	Milestone 3 July

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i	Increase in science displays throughout school	There will be a further 2 science displays in corridors throughout the school	SM	Learning walks		Cost of some display materials	Staff informed of science displays and where they will go.	Displays to be put up	Displays to be refreshed.
ii	Science reward trip	Science reward trip occurs	SM	Educational visit calender		Coach funding	Contact various science based visit areas (including BBNW)	Trip to be planned and costed, it to be mentioned in assemblies	Trip to have taken place with special mentions in assembly and children to report about it
iii	Science afterschool club	A science afterschool club to have taken place	SM	Afterschool club list		Afterschool club fund/ materials	Staff/ company sourced to rub club	Club to have taken place	Evaluations from children to have taken place