



## St Ursula's Catholic Primary School Subject Action Plan 2020 / 2021

Subject Area: Science

Written by: Mrs L Claydon & Miss L Camilleri

Date Completed: Autumn Term 2020

To be reviewed: Spring Term 2021

Areas for improvement to achieve vision: <b>What are you trying to achieve?</b>	Actions needed to achieve the vision: <b>How is your curriculum being delivered?</b>	When will I have completed these by:	How am I going to check the quality and impact?	Expected outcome /what will you see? <b>What difference is your curriculum making?</b>
1. <u>KS1</u>  To ensure that the planning and sequencing of science lessons is effective and that key concepts (including opportunities to work scientifically) are embedded in the school's science curriculum.	Miss Camilleri to attend science curriculum development day and map out vision for science in the infant school. Feedback to staff.	March 2020	Teacher feedback.  Feedback from SLT.	Teachers to be confident in what they are teaching, when and why. They will have a clear understanding of how their planning is structured and what the curriculum aims and objectives are for each unit of work.
	1 hour of science a week to be timetabled in for years 1 and 2.	January 2020	Teacher feedback. Pupil feedback. Check timetables.	
	Miss Camilleri to look at curriculum coverage for science and ensure that long term plans ensure coverage of all objectives/progression of key skills in working scientifically.	September 2020	Teacher feedback. Feedback from SLT. Learning walks.	Children to be aware of when they are engaging in science lessons/working scientifically.
	Miss Camilleri to meet with KS1 staff to share new planning scheme adopted and expectations for science. Non-negotiables shared with teachers.	Autumn 2020	Teacher feedback. Feedback from SLT.	Children to be able to reflect on their science



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		<ul style="list-style-type: none"> <li>*Topic page</li> <li>*Pre and post learning assessment</li> <li>*Assessment tracker for books/on shared area</li> </ul>		Book Looks to ensure non-negotiables are being met	lessons and discuss how their science skills are improving/what they can do to improve further.
2.	<u>KS1</u> To ensure that teachers have time to consider and understand the depth of knowledge that children need at relevant key stages to improve children's science attainment	Miss Camilleri to be aware of/attend any relevant Science CPD training available (or access online if covid-19 restrictions still apply)	Ongoing	Subject leader attendance and organisation.  Staff feedback.  Book looks to assess whether any new resources are being used.	Teachers to have a wider range of activity ideas to enhance and bring science to life for the children as well as a systematic map for learning.  (Twinkl scheme adopted for curriculum coverage purposes – teachers encouraged to use other ideas when they see fit however under current Covid-19 restrictions it is expected that Twinkl lessons may be used more frequently to reduce risk of contamination)
		External twilight CPD sessions with the junior school	April 2021 - ongoing	Subject leader attendance and organisation. Staff feedback. Lesson observations and book looks to ensure new ideas are being used and taught.	
		Introducing 'Explorify' to the infant school (currently used in the junior school– visual stimulus, discussion prompts, investigation ideas.)	April 2021	Staff feedback. Pupil voice. Learning walks.	New ideas to be shared across the key stages and on planning.



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3.	<p><u>KS1</u> To raise pupils awareness and enjoyment of science and ensure that they understand what they are learning in science and how it links to the real world.</p>	<p>Science week to be organised and take place: A wide range of fun activities/investigations/competitions and fancy dress etc – get the children excited about science!</p>	March 2020 - ongoing	Pupil voice Learning Walks Parent views Photographic evidence	Children will be excited when talking about science!
		<p>All KS1 classes to have Science displays up with key vocabulary displayed and any helpful information children may need through each topic – to be updated every half term (Working scientifically vocabulary to stay up all year).</p>	September 2020	Miss Camilleri to check displays.	They will use some correct scientific vocabulary when discussing their science learning.
		<p>Miss Camilleri to work with Mrs Claydon to help run the “Super Scientists” club which should now include year 1 and 2 pupils. (Covid-19 restrictions permitting)</p>	September 2020 - ongoing	Pupil voice Peer feedback	Pupils will understand that everyone is a scientist and that science is all around us! They will be able to make cross-curricular links to science and discuss how it is helpful in the wider world.



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1	<u>KS2</u>  To foster children's curiosity and a desire to strengthen their science knowledge.	Linking with scientists to ask questions and further children's curiosity and science understanding (Encounter Live Edu).	Apr 2021  Ongoing	Observations.  Pupil feedback.  Teacher feedback.  Photographic evidence.	Each year group expected to link with scientists through Encounter Live Edu – a perfect resource during the Covid-19 situation.  Children to develop their scientific vocabulary and their investigating skills through online investigations and activities.
		Forensic Science Company to visit – inspire and develop science investigative skills (as per Pupil Voice).	Spring 2021	Lesson observations.  Book looks.  Pupil Voice.  Teacher feedback.	Link science to the real world not just topic work.  Children vocal and enthused about science



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	Science Club – CREST Award	Spring 2021? (Earlier if safe to do so).	Pupil engagement and awarding of CREST Award.  CREST Award given.  Pupil Voice.  Lesson observations.	and to realise the opportunities that there are out there within the science world.  If / when the Covid-19 situation clears, Science Club to be run across the school (Yrs 1-2) & (Yrs 3-6). Children to be confident and resilient learners in science. They will be able to predict, investigate and analyse their work. *Develop a love of science.
	Curiosity boxes to be set out in class – linked to topics and what children would love to learn about.	Ongoing	Learning walks.  Pupil Voice.  Staff feedback.	**During the Summer Term, Year 6 to complete a CREST Award – whole year group. This will develop and consolidate their science knowledge and prepare them for their secondary transition.



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					<p><u>Expected outcome:</u> Curiosity boxes to be used effectively to challenge the children. Work to be presented in books or on display. Increase in scientific vocabulary and understanding.</p>
2	<p><u>KS2</u> To provide engaging CPD sessions to aide teachers in their delivery of science.</p>	<p>External CPD sessions provided by ASE that require participation from teachers – resources provided to be used in the classroom.</p> <p>*Continue to use Reach Out CPD (Online).</p>	<p>April 2021</p> <p>Ongoing</p> <p>Ongoing</p>	<p>Subject leader attendance and organisation.</p> <p>Staff feedback.</p> <p>Book looks to assess whether new resources are being used.</p>	<p>Teachers to have a range of activity ideas to use.</p> <p>Resources to be ordered prior to unit of work.</p> <p>(CPD sessions to be online for the foreseeable future).</p> <p>Certificates to be saved on to the server.</p>



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					Planning to show new ideas and links to Reach Out CPD.
	External twilight CPD sessions across the Federation.	June 2021 Ongoing	Subject leader attendance and organisation.  Staff feedback.  Lesson observations and book looks to ensure new ideas are being used and taught.		New ideas to be shared across the key stages and on planning.
	Introducing 'Explorify' across both key stages – visual stimulus, discussion prompts, investigation ideas.	Sept 2020	Staff feedback.  Pupil voice.  Learning walks.		Explorify activities undertaken to inspire and engage students from the outset.  Observational skills and vocabulary to be developed.



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3	<p><b>KS2</b> To raise attainment in science through scientific enquiry and effective assessment – linking to science principles.</p>	<p>Teachers and subject leader to review science topics and ensure that new scientific information is added. *Particular focus on the environmental topic for the Summer 2 term. **Scientific experiments MUST be the focus of lessons. <b>(Can be done online if resources unavailable / during Covid-19 situation).</b> ***Diagnostic and end of topic tests must be carried out – re-introducing 'What would you like to find out'. ****Data to be recorded for Diagnostic and end of topic assessments and interventions to take place where necessary.</p>	Ongoing	<p>Review of science lesson plans. Book looks. Lesson observations.</p>	<p>Diagnostic assessments to be completed and data to be entered on to spreadsheet. *Data to be shared with parents. *Interventions to be organised where necessary.</p>





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		Science expectations highlighted at the beginning of the year: *Topic Page *Target Sheet *Diagnostic assessment *What would you like to find out? *Crossword / wordsearch of keywords *6-week unit of work (Record at least 1 piece per week) *End of topic assessment	Shared in September 2020  Reminders each term	Book looks  Pupil Progress data	
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### Vision:

At St. Ursula's Catholic Primary School, we believe that our children should have a broad and balanced science education. As teachers we work hard to inspire our students so that they can reach their full potential, plus we encourage them to be active participants in taking charge to help protect our world. We hope to ignite pupil's natural curiosity to explore, and advocate questioning and practical work to obtain answers.

As Albert Einstein said:

"The important thing is not to stop questioning. Curiosity has its own reason for existing."