



## St. Peter's Catholic Primary School, Gloucester

### Science Curriculum INTENT Statement

At St. Peter's Catholic Primary School, our mission is to share the good news of Jesus Christ with all in our school family so that each child grows in the knowledge that they are formed in the image and likeness of God who calls them to love and be loved, and that they hear and respond to the call to "live wisely, love generously and learn to think deeply." (Pope Francis, *Laudato Si*, 2016).

**Our mission statement is:**

**Following in Jesus' footsteps, we live, love and learn together as a school family, to build a better world.**

It is our intention that the St. Peter's Science curriculum will enable our children to understand and experience what it is to be a scientist.

The intent of our Science curriculum is to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.
- help pupils to learn from Science so that they use their skills and knowledge 'to build a better world'

It is also our intention that the St. Peter's Science curriculum will embrace our whole school curriculum intent as follows:



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<p><b>Following in Jesus' footsteps, we live, love and learn together as a school family, <i>to build a better world.</i></b></p>						
<p><b>It is our intention that the St. Peter's Curriculum will:</b></p>						
Nourish and nurture	Empower our children with the knowledge and skills to:			augment remembering	Develop key attributes	Inspire
	LIVE	LOVE	LEARN			
<p><b>Talents:</b></p> <ul style="list-style-type: none"> <li>• curriculum, enrichment and extra-curricular opportunities</li> <li>• Faith</li> <li>• RE curriculum</li> <li>• Disadvantaged including SEND and PP children.</li> </ul>	<p><b>Responsible citizens:</b></p> <ul style="list-style-type: none"> <li>• Local/national/international</li> <li>• Fund raising.</li> <li>• Global challenges.</li> <li>• Laudato Si &amp; Fratelli Tutti.</li> </ul>	<p><b>Inclusion:</b></p> <ul style="list-style-type: none"> <li>• SEND.</li> <li>• Disadvantaged.</li> <li>• Other cultures and beliefs.</li> <li>• Gospel message.</li> <li>• CST – social justice and help those in need.</li> </ul>	<p><b>Think deeply:</b></p> <ul style="list-style-type: none"> <li>• mastery and enquiry questions</li> <li>• Successful learners: lifelong learners</li> <li>• Aspirations</li> <li>• Growth mindset</li> <li>• RP</li> <li>• Confident individuals:</li> <li>• Self-regulation</li> <li>• Metacognitive strategies</li> <li>• Role models</li> </ul>	<ul style="list-style-type: none"> <li>• Retrieval</li> <li>• Spiral curriculum: golden threads</li> </ul>	<ul style="list-style-type: none"> <li>• Independence</li> <li>• Resilience</li> <li>• Perseverance</li> <li>• Team players</li> <li>• Effective communication skills</li> <li>• Problem solvers</li> <li>• Risk takers</li> </ul>	<ul style="list-style-type: none"> <li>• Parental engagement</li> <li>• Oracy and reading</li> <li>• Cultural capital</li> </ul>



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### It is our intention that the St. Peter's Sciencecurriculum will:

<ul style="list-style-type: none"> <li>• Forest School sessions.</li> <li>• Through excellent Science teaching and learning, we aim to develop the natural curiosity of all of the children in our school family, we encourage respect for living organisms and the physical environment in the world God has given us and provide opportunities for critical evaluation of evidence.</li> <li>• G&amp;T UKS2 children at the GSP Science Festival at Denmark Road</li> </ul>	<ul style="list-style-type: none"> <li>• Use a range of methods to communicate their scientific information and present it in a systematic, scientific manner, including I.C.T., diagrams, graphs and charts.</li> </ul>	<ul style="list-style-type: none"> <li>• STEM in the world around us</li> <li>• STEM in the school grounds – Forest School and pond</li> <li>• Develop an enthusiasm and enjoyment of scientific learning and discovery.</li> <li>• Demonstrate a respect for the materials and equipment they handle with regard to their own, and other children's safety.</li> </ul>	<ul style="list-style-type: none"> <li>• STEM careers</li> <li>• Science week</li> <li>• Thinking like scientists</li> <li>• Develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics.</li> <li>• Develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics.</li> <li>• Develop understanding of the nature, processes and methods of Science through different types of scientific enquiry and further develop these essential scientific enquiry skills to</li> </ul>	<ul style="list-style-type: none"> <li>• Retrieval of learning from previous key stage/ year group using explorify, concept cartoons, etc...</li> </ul>	<ul style="list-style-type: none"> <li>• Broad and Balanced curriculum including coverage of Biology, Physics and Chemistry in from EYFS to KS2.</li> <li>• Independence to take ownership of WHW investigations.</li> <li>• Resilience and Perseverance to work scientifically even if things go wrong.</li> <li>• Team players to collaborate and share scientific findings and complete enquiries together.</li> <li>• Effective communication skills in recording, sharing and</li> </ul>	<ul style="list-style-type: none"> <li>• We endeavour to ensure that the Science curriculum we provide will give children the confidence and motivation to truly question and appreciate the wonders of the world around us as well as develop their ability to continue to further develop these skills into the next stage of their education and life.</li> </ul>
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			<p>deepen their scientific knowledge.</p> <ul style="list-style-type: none"><li>• Understand, define and use a range of scientific vocabulary correctly;</li><li>• Be equipped with the scientific knowledge required to understand the uses and implications of Science from the past, the present day and for the future.</li></ul>		<p>explaining findings in different ways.</p> <ul style="list-style-type: none"><li>• Problem solvers when faced with new information, challenges, investigations and misconceptions.</li><li>• Risk takers ready to try new methods.</li></ul>	
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