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Please visit our Science Ambassadors to experience the 6 different types of Scientific enquiry.





Overview







- Why is Science so important?
- Scientific Enquiry at FPS
- Working Scientifically skills
- Our Curriculum
- Assessment Process
- How you can support at home – websites, activities and resources
- Q&A



Our Vision

At FPS science inspires children by encouraging them to **explore the world around them**, nurture their **natural curiosity** and build on their previous experience to develop a range of skills that can be utilized across the curriculum. Our Primary science curriculum fits in with our FPS ethos, by developing **independent learners** who develop a lifelong love for learning and a **passion for science**.

Scientific Enquiry at FPS

 <p>Comparative and Fair Testing</p> <p>Where we change one variable to see its effect on another, whilst keeping all others the same.</p>	 <p>Research</p> <p>Using secondary sources of information to answer scientific questions.</p>
 <p>Observation over time</p> <p>Observing changes that occur over a period of time ranging from minutes to months.</p>	 <p>Pattern-seeking</p> <p>Identifying patterns and looking for relationships in enquiries where variables are difficult to control.</p>
 <p>Identifying, grouping and classifying.</p> <p>Make observations to name, sort and organise items.</p>	 <p>Problem-solving</p> <p>Applying prior scientific knowledge to find answers to problems.</p>

At FPS, we teach key scientific knowledge and understanding of concepts through scientific enquiry.

It is through this approach that children build a curiosity and understanding of the 'how's and 'why's of the world around them.

Some topics lend themselves to particular types of enquiry. For example, in biology-related topics observation over time might be most appropriate. In physics-related topics such as forces a comparative or fair test might be what is needed to find out.

Over the year, the children are given the opportunity to carry out many different types of investigations and apply their knowledge to the real world.

Working Scientifically Skills

The skills below are developed and built upon so that they can carry out their scientific enquiry successfully.

Asking scientific questions

Planning an enquiry

Taking measurements

Observing

Recording results

Presenting results

Interpreting results

Drawing conclusions

Making predictions

Evaluating enquiry

In the EYFS we learn through real life experiences. We learn about the Natural World around us as well as People and Communities through high quality play-based opportunities.

A lot of our Understanding the World learning takes place in Desert School.

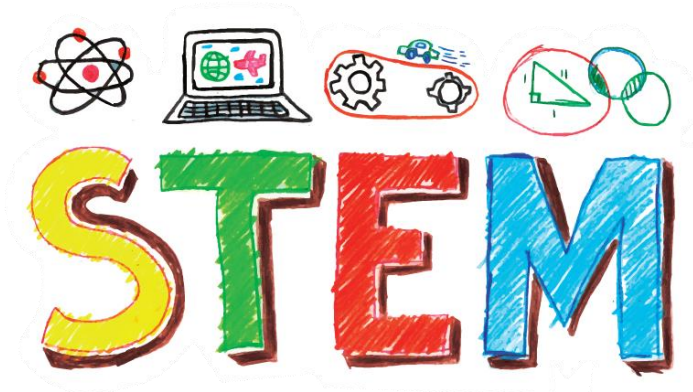




Our Curriculum

	Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
Year 1	Materials		Plants	Seasons	Animals including Humans	
Year 2	Plants		Living Things and their Habitats	Animals including Humans	Materials	
Year 3	Forces and Magnets	Animals including Humans	Light	Plants	Plants	Rocks
Year 4	States of Matter	Living Things and their Habitats	Sound	Animals Including Humans	Electricity	
Year 5	Properties of Materials	Changes of Materials	Animals including Humans	Living Things and their Habitats	Space	Forces
Year 6	Plastics	Living Things and their Habitats	Animals including Humans	Light	Evolution	Electricity

Raising the profile of Science at FPS





Primary Science Assessment

At the end of each topic children complete a practical assessment task which allows them to apply their knowledge and working scientifically skills.

Each term, there will be an assessment week across primary that will assess the children's curriculum knowledge and working scientifically skills.

- Children complete 1 paper which assesses understanding of physics, chemistry, biology and working scientifically. This will consist of topics from prior years as well as current topics.
- Triangulation – Assessment week, daily teaching and learning, and evidence in books.

Additional Science interventions will take place to provide further support and to enhance learning throughout the year.



Supporting your child at home

- ▶ Below are some great websites with suggestions for Science activities that can be done at home:

[Science Fun at Home - Primary Science Teaching Trust \(pstt.org.uk\)](https://www.pstt.org.uk)

[Easy Ideas for Science at Home - Science Sparks \(science-sparks.com\)](https://www.science-sparks.com)

<https://www.stem.org.uk/elibrary/resource/34385>

[Science at Home with the Family – Community Resources for Science \(crscience.org\)](https://www.crscience.org)

[Explorify at home - Explorify](https://www.explorify.com)

- ▶ Get outside and explore (when the weather allows it)!
- ▶ Dubai is hosting COP28 next month. Engage in conversations surrounding climate action and your own impact on the world
- ▶ If your career is **STEAM** related (or someone you know does)– let me know! We would love to use your expertise to enhance the children’s Science learning experience.



Additional Support

Your class teachers are your first port of call and can give a more personalised support relevant to your child.

Alternatively – contact me!

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