

## Scientific Enquiry at Captain Webb: Our BIG Science Questions

	Comparative and Fair Testing	Identifying, Classifying and Grouping	Pattern Seeking	Observation Over Time	Research
Year 1	Which material will stop Ted from getting wet? (Everyday Materials)	What plants and trees grow in our local area? (Plants)	Is there a pattern in the types of materials that are used to make objects in a school? (Everyday Materials)	Which season is the coldest? (Seasonal Changes) <span style="color: green;">Maths measure link: Months of the year</span>	Does the poo belong to an omnivore, carnivore or a herbivore? (Animals including Humans)
Year 2	What conditions are best for plants to grow? (Plants)  What material makes the best bridge? (Materials)	Grouping living, dead and never alive things (Living Things and their Habitats) <span style="color: red;">Maths statistic link: Simple table</span>	Which habitats do worms prefer? Where can we find the most worms? (Living Things and their Habitats) <span style="color: red;">Maths statistic link: Tally chart</span>	Planting seeds and observing the changes (Plants) <span style="color: green;">Maths measure link: Measure height</span>	What food do you need to be healthy? (Animals including Humans)
Year 3	Which surface is best to stop you slipping? (Forces and Magnets) <span style="color: green;">Maths measure link: Read with increased accuracy, and record and compare the time</span>  How does the distance between the puppet and the light source affect the size of the shadow created? (Light and Dark) <span style="color: green;">Maths measure link: Measure and compare lengths</span>	Can you group these rocks based on their appearance and properties? (Rocks)	Do male humans have larger skulls than female humans? (Animals including Humans)	What happens to celery when it is left in a glass of coloured water? (Plants)	How many bones does the human body have? Why do we need bones? Why do we need muscles? What is a muscle? (Animals including Humans) <span style="color: red;">Maths statistic link: Interpret data</span>
Year 4	How does the volume of a drum change as you move further away from it? (Sound)  Does the type of chocolate affect the time it takes to melt? (States of Matter) <span style="color: red;">Maths statistic link: Time graph</span>	Which animals live in Dawley Pools? (Living Things in their Habitats) <span style="color: red;">Maths statistic link: Pictogram</span>	Which room in the school has the most electrical sockets? (Electricity) <span style="color: red;">Maths statistic link: Bar chart</span>	How does the volume of sound change over time in different parts of the school? (Sound) <span style="color: green;">Maths measure link: Perimeter – could you look at the size of the room???? Recap yr 3 learning</span>	What are the functions of the main parts of the digestive system? (Animals including Humans)
Year 5	Which shape parachute takes the longest to fall? (Forces)	Which material would be the most effective to create a blackout curtain? (Materials)	Is there a relationship between a mammal's size and its gestation period? (Animals including Humans) <span style="color: green;">Maths measure link: Converting between kg and g (including decimal places)</span>	How does a container of salt water change over time? (Materials) <span style="color: red;">Maths statistic link: Line graph (one set of data and GD: two sets of data)</span>  Why does the moon change every night? (Earth and Space)	What are the planets that make up our solar system? (Earth and Space)

Year 6	<p>How does the type of liquid affect the angle at which the light refracts? (Light)</p> <p>Which fruit makes the best battery? (Electricity)</p> <p>How does exercise effect our heart rate? (Animals including Humans)</p>	<p>Compare the skeletons of apes, humans, and Neanderthals – how are they similar, and how are they different? (Evolution)</p>	<p>Does the child with the longest legs run the fastest? (Animals including Humans)</p> <p>Maths statistic link: <a href="#">Bar charts and scatter graphs</a></p>	<p>Which classroom in school is the dirtiest? (Living Things and their Habitats)</p>	<p>What the components of blood and what's their purpose? (Animals including Humans)</p> <p>Child led research: E.g. Why do some people need to wear glasses to see clearly? Why some people are colour blind? (Light)</p> <p>What did Charles Darwin discover about the finches when he visited the Galapagos islands? (Evolution)</p> <p>Maths statistic link: <a href="#">Pie charts and the mean</a></p>
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# 5 Science Enquiry Types



