

# St Cuthbert Mayne School Curriculum Map 2021-2022



**Department: Science**

**Year 7**

**Department Intent and overview**

Developing Scientists of the future

**Key Stage 3 Curriculum Summary**

Exploring the fundamental concepts of Science

***Autumn Term 1***

<b>Topic/Unit</b>	Introduction to Science
<b>Knowledge (Content covered)</b>	• Laboratory Safety • Selecting correct equipment • Bunsen Burners • Displaying Scientific data • Carrying out Scientific Investigations • Science in the news • Careers in Science
<b>Skills</b>	Laboratory Safety skills, using equipment safely, reporting findings to the world

<b>Assessment</b>	Re-and Post progress check multiple choice, 2x DIRT tasks
<b>Gatsby 4 (Linking curriculum learning to careers)</b> <a href="#">GATSBY BENCHMARK 4</a>	Science Technician

### *Autumn Term 2*

<b>Topic/Unit</b>	Cells
<b>Knowledge (Content covered)</b>	<ul style="list-style-type: none"> <li>● Animal and plant cells</li> <li>● Microscopes</li> <li>● Organs</li> <li>● Systems</li> <li>● Puberty</li> <li>● Sexual reproduction</li> <li>● Pregnancy</li> <li>● The menstrual cycle</li> </ul>
<b>Skills</b>	Applying basic scientific theories to new ideas Developing understanding of the fundamentals of science
<b>Assessment</b>	Pre-and Post progress check multiple choice, 2x DIRT , end of unit assessment
<b>Gatsby 4 (Linking curriculum learning to careers)</b> <a href="#">GATSBY BENCHMARK 4</a>	Nurse Doctor

### *Spring Term 1*

<b>Topic/Unit</b>	Atoms
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<b>Knowledge (Content covered)</b>	<ul style="list-style-type: none"> <li>● Structure of an atom</li> <li>● History of the atom</li> <li>● Periodic table</li> <li>● Separating techniques</li> </ul>
<b>Skills</b>	Applying basic scientific theories to new ideas Developing understanding of the fundamentals of science
<b>Assessment</b>	Pre-and Post progress check multiple choice, 2x DIRT , end of unit assessment
<b>Gatsby 4 (Linking curriculum learning to careers)</b> <a href="#">GATSBY BENCHMARK 4</a>	Pharmacist

### *Spring Term 2*

<b>Topic/Unit</b>	Forces
<b>Knowledge (Content covered)</b>	<ul style="list-style-type: none"> <li>● Types of force</li> <li>● Friction</li> <li>● Speed</li> <li>● Density</li> <li>● Pressure</li> <li>● Pneumatics</li> </ul>
<b>Skills</b>	Applying basic scientific theories to new ideas Developing understanding of the fundamentals of science
<b>Assessment</b>	Pre-and Post progress check multiple choice, 2x DIRT , end of unit assessment
<b>Gatsby 4 (Linking curriculum learning to careers)</b>	Automotive Engineer


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***Summer Term 1***

<b>Topic/Unit</b>	Energy 1
<b>Knowledge (Content covered)</b>	Energy transfers Energy in food Power Efficiency Bills & fuel costs Electricity - Current Potential difference Resistance
<b>Skills</b>	Applying basic scientific theories to new ideas Developing understanding of the fundamentals of science
<b>Assessment</b>	Pre-and Post progress check multiple choice, 2x DIRT , end of unit assessment
<b>Gatsby 4 (Linking curriculum learning to careers)</b> <a href="#">GATSBY BENCHMARK 4</a>	Electrical Engineer

***Summer Term 2***

<b>Topic/Unit</b>	Science project
<b>Knowledge (Content covered)</b>	Using the knowledge of all previous units to conduct group investigations and present them to the school population.
<b>Skills</b>	Applying basic scientific theories to new ideas Developing understanding of the fundamentals of science
<b>Assessment</b>	Pre-and Post progress check multiple choice, end of unit presentation



<b>Gatsby 4 (Linking curriculum learning to careers)</b> <a href="#">GATSBY BENCHMARK 4</a>	Scientific Researcher
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