

## Curriculum Map

**Subject: Science**

**Year Group: 9**

Time Period	Autumn Term		Spring Term		Summer Term	
<b>Content</b>	New technology in Biology New technology in Chemistry New technology in Physics	Turning points in Biology Turning points in physics Turning points in Chemistry	Detection in Biology Detection in physics Detection in Chemistry	Detection in Biology Detection in physics Detection in Chemistry	Fundamental Biological concepts Fundamental Chemical concepts Fundamental physical concepts	Fundamental Biological concepts Fundamental Chemical concepts Fundamental physical concepts
<b>Skills</b>	Predicting, making inferences and describing relationships Use of scientific terms Organisation of ideas and information Identifying main ideas, events and supporting details Application of working scientifically		Predicting, making inferences and describing relationships Use of scientific terms Organisation of ideas and information Identifying main ideas, events and supporting details Application of working scientifically		Predicting, making inferences and describing relationships Use of scientific terms Organisation of ideas and information Identifying main ideas, events and supporting details Application of working scientifically	
<b>Key Questions</b>	How are characteristics inherited? What are inherited disorders? What are; selective breeding, cloning and genetic engineering? What is Biotechnology? What are nanoparticles and how can we use them? What are the pros and cons of using cars? What are digital and analogue? What is efficiency? What are thermistors? How can you increase your reaction times?		How can we use biological specimens to solve crimes? What is pathology? How can we use separating techniques to solve crimes? How do breathalysers work? What types of telescopes are there? How does GPS work? How do physicist investigate what the universe is made of? How are particles detected?		What is a cell? What is respiration? How do substances move in an out of cells? How do different organ systems work together? What is an atom? What are the subatomic particles? How is the periodic table arranged? How can atoms join together? What are energy stores? How is energy transferred? What is work? What is efficiency?	

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	<p>How are vaccines made and how do they work?</p> <p>What are antibiotics?</p> <p>Who was Charles Darwin?</p> <p>What is the evidence that atoms exist?</p> <p>How are fossils formed?</p> <p>What do different cultures believe about the universe?</p> <p>What are spacecraft and satellites?</p> <p>What is radioactivity?</p> <p>What is electromagnetism?</p>		
<b>Assessment week and content</b>	<p>New technology in Physics W/C 30<sup>th</sup> October</p> <p>New technology in Biology test W/C 6<sup>th</sup> November</p> <p>New technology in Chemistry test W/C 13<sup>th</sup> November</p>	<p>Turning points in Chemistry W/C 15<sup>th</sup> January</p> <p>Turning points in Biology W/C 15<sup>th</sup> January</p> <p>Turning points in Physics W/C 22<sup>nd</sup> January</p> <p>Detection in Chemistry W/C 25<sup>th</sup> March</p> <p>Detection in Physics W/C 18<sup>th</sup> March</p> <p>Detection in Biology W/C 25<sup>th</sup> March</p>	<p>Fundamental Chemical concepts W/C 20<sup>th</sup></p> <p>Fundamental Physical concepts W/C 20<sup>th</sup> May</p> <p>Fundamental Biological concepts W/C 17<sup>th</sup> June</p> <p>Practical skills W/C 08<sup>th</sup> July</p>

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