

**Curriculum Map – Subject: Science**

**Aim – Year 10 pupils are starting the AQA Biology single award science** The course gives pupils the opportunity to experience science within the context of their general education. The pupils will acquire knowledge and understanding of scientific facts, terminology, concepts, principles and practical techniques. It provides a solid understanding and an opportunity to gain a GCSE Grade in the June 2025 examinations.

Term 1		Term 2		Term 3	
Learning Cycle 1	Learning Cycle 2	Learning Cycle 3	Learning Cycle 4	Learning Cycle 5	Learning Cycle 6
Assessment based on end of unit tests on past exam questions	Assessment based on end of unit tests on past exam questions	Assessment based on end of unit tests on past exam questions	Assessment based on end of unit tests on past exam questions	Assessment based on end of unit tests on past exam questions	Assessment based on end of unit tests on past exam questions
<p><b>Intent</b> B1 Cells and B2 organisms. Pupils will be able to understand that all living things are made of cells and how cells work.</p> <p><b>Implementation</b> Pupils will look at cells under the microscope and study the different parts of plant and animal cells. They will study the functions of the different parts.</p> <p><b>Impact</b> Pupils can explain what cells are and how the different parts function.</p>	<p><b>Intent</b> B3 Disease. Pupils will be able to describe and explain the different types of disease and how the human body fights disease.</p> <p><b>Implementation</b> Pupils will study the difference between communicable and non-communicable disease. How pathogens or health life style choices could affect disease and how diseases are prevented.</p> <p><b>Impact</b> Pupils can explain the different types of disease and the prevention of the spread of disease.</p>	<p><b>Intent</b> B4 Bioenergetics Pupils will be able to explain the chemical reactions of life, photosynthesis, respiration and the metabolism.</p> <p><b>Implementation</b> Pupils will learn about photosynthesis in plants and respiration in humans and the reactions required for life in the metabolism</p> <p><b>Impact</b> Pupils can explain the chemical reactions of life, photosynthesis, respiration and the metabolism.</p>	<p><b>Intent</b> B5 Homeostasis Pupils will be able to describe and explain the way humans and plants respond to their environment.</p> <p><b>Implementation</b> Pupils will learn how reflex actions and hormones help the human body respond to the environment in a complex coordination and response system. That plants also respond to the world around them.</p> <p><b>Impact</b> Pupils can describe and explain the way humans and plants respond to their environment.</p>	<p><b>Intent</b> B6 Reproduction Pupils will be able to understand how reproduction is essential to all living things. B6 Genetics Pupils will be able to describe and explain how DNA and the genetic code controls who we are.</p> <p><b>Implementation</b> Pupils will learn the differences between sexual and asexual reproduction. They will learn how cells divide to produce new cells.</p> <p><b>Impact</b> Pupils will understand how reproduction is essential to all living things.</p>	<p><b>Intent</b> LC6 Ecology pupils will be able to understand the importance of adaptations, interdependence and competition</p> <p><b>Implementation</b> Pupils will learn the importance organisms in the environment, distribution and abundance and competition between living things.</p> <p><b>Impact</b> Pupils can describe and food chains food webs food pyramids adaptations and environmental factor affecting populations</p>