

**Year:11 Subject: Biology  
IMPLEMENTATION**

	<b>Year:11 Subject: Biology IMPLEMENTATION</b>					
<b>INTENT</b> (including key concepts and skills)	<b>Half Term 1</b> <b>Context:</b> B5 Inheritance, Variation  <b>Key Vocabulary:</b> Cell division, DNA, genome, gene expression, mutation, inheritance, genetics, inherited disorders, variation, natural selection, selective breeding, genetic engineering, cloning, ethics.  <b>Prior Learning</b> Y7 L2 reproduction Y8 L3 Inheritance and GM  <b>Cultural Capital:</b> Understanding why children look similar but not the same. An awareness of inherited disorders.	<b>Half Term 2</b> <b>Context:</b> B5 Evolution  <b>Key Vocabulary:</b> Theories of evolution, darwin's ideas, speciation, evidence for evolution, fossils, extinction, antibiotic resistant bacteria, classification.  <b>Prior Learning</b> Y7 I2 Classification and adaptation Y9 I5 Extinction and evolution  <b>Cultural Capital:</b> Understanding where scientist gather their evidence for evolution.  Understanding the reasons for completing a course of antibiotics.	<b>Half Term 3</b> <b>Context:</b> B6 Ecology  <b>Key Vocabulary:</b> Communities, environment, distribution, abundance, competition, adaptations, materials cycling, carbon cycle, decomposition.  <b>Prior Learning</b> Y7 I1 Ecological relationships Y9 I5 Extinction and evolution  <b>Cultural Capital:</b> An awareness of when habitats are destroyed and how the ecosystem changes.  Knowledge of how pollutant gases are released and stored within the carbon cycle.	<b>Half Term 4</b> <b>Context:</b> B6 Ecology  <b>Key Vocabulary:</b> Human population, pollution, deforestation, peat destruction, global warming, biodiversity, trophic levels, biomass, sustainability.  <b>Prior learning:</b> Y7 I1 Ecological relationships Y8 R3 Reactions in our environment.  <b>Cultural Capital:</b> Knowledge of how pollutant gases are affecting the atmosphere and how the destruction of peat bogs are making this situation worse..	<b>Half Term 5</b> <b>Context:</b> Revision of all content during all Science lessons until the final Physics exam takes place.  This will include lots of exam techniques being taught alongside exam style questions.	<b>Half Term 6</b> <b>Context:</b> Revision of all content during all Science lessons until the final Physics exam takes place.  This will include lots of exam techniques being taught alongside exam style questions.
Applying knowledge and understanding to explain observations	X	X	X	X	X	X
Use different types of scientific enquiry to answer scientific questions	X	X	X	X	X	X
Use technical terminology with confidence accuracy and precisely	X	X	X	X	X	X
Apply mathematical knowledge to scientific understanding	X	X	X	X	X	X
Aware of some of the social and economic implications of science	X	X	X	X	X	X
<b>IMPACT</b>	Assessment: At the end of B5	Assessment: B5 End of topic Test	Assessment: At the end of B6	Assessment: B6 End of topic test	Assessment: Live GCSE exams	Assessment: Live GCSE exams

Cultural Capital is the body of knowledge a student needs so that they can flourish in the future and not be left behind.