

	Half term 1	Half term 2	Half term 3	Half term 4/5/6
Key focus	Forces Paper 1 Revision	Ecology Paper 1 Revision	Inheritance Paper 1 Feedback and Intervention	Paper 1 and 2 Revision
Key knowledge and skills	<ul style="list-style-type: none"> a) Resultant Forces b) Work done and energy transfers c) Forces and Elasticity d) Distance and displacement e) Speed and acceleration f) Newton’s Laws 	<ul style="list-style-type: none"> a) Organization and interaction in a community b) Biodiversity c) Sampling Techniques d) Global Warming e) Waste management and land use 	<ul style="list-style-type: none"> a) Reproduction b) DNA c) Genetic disease d) Genetic engineering e) Variation and Evolution f) Selective breeding g) Classification 	a) Students will follow a coordinated revision programme that will give the opportunity to review skills and knowledge across the Combined Science GCSE.
Key words/ vocabulary	<ul style="list-style-type: none"> • Work done • Hooke’s Law • Velocity • Vectors • Proportional • Equilibrium 	<ul style="list-style-type: none"> • Classification • Biodiversity • Biotic and abiotic • Sampling 	<ul style="list-style-type: none"> • Genetic diagram • Genetic screening • Genome • Speciation • Genetic engineering • Antibiotic resistance • Classification • Binomial system • Evolutionary tree 	
Assessment method	<ul style="list-style-type: none"> • End of topic assessment • Extended Writing • November Paper 1 Mock Exams 	<ul style="list-style-type: none"> • End of topic assessment • Extended Writing • November Paper 1 Mock Exams 	<ul style="list-style-type: none"> • End of topic assessment • Extended Writing • March Paper 2 Mock Exams 	<ul style="list-style-type: none"> • Each topic will be assessed to identify skills and knowledge gaps with the opportunity for to reteach students and address misconceptions. • In class mock examinations will provide students with a summary of the progress made and further opportunities to move forward. • March Paper 2 Mock Exams
Wider links	<ul style="list-style-type: none"> • Maths – mean, mode, median, inequalities, change subject of equation, gradients • Music – forces and elasticity, tension and how this affects pitch 	<ul style="list-style-type: none"> • Maths – interpreting graphs • Geography – the challenge of resource management, human impacts on Ecosystems 	<ul style="list-style-type: none"> • Geography – Geology/Rocks/Geological Activity • PER – ethics of embryo screening • Maths – ratios/probability 	

<p>Enrichment opportunities</p>	<p>Book - Isaac Newton: the scientist who changed everything by Philip Steele for National Geographic</p> <p>BBC One - Forces of Nature with Brian Cox</p>	<p>Our Planet Documentary (Netflix)</p> <p>List of Conservation Areas Bradford Council</p>	<p>Inheritance, variation and evolution - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize</p>	
<p>Careers links</p>	<ul style="list-style-type: none"> • Builder • Architect • Aerospace engineer • Wind turbine technician • Electrical Engineer • Mechanic 	<ul style="list-style-type: none"> • Ecologist • Environmental Consultant • Restoration Ecologist • 	<ul style="list-style-type: none"> • Geneticist • Animal breeder • Doctor • Nurse • Evolutionary biologist • 	