

## Curriculum Overview: Year 11 Trilogy Science (Prioritised for Success)

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topics covered →</b> <b>Biology</b> – Ecology  <b>Physics</b> – waves, elasticity and magnets	<b>Topics covered →</b> <b>Biology</b> – DNA and genetics  <b>Chemistry</b> – Atmosphere and Resources	<b>Topics covered →</b> <b>Physics</b> – Forces  <b>Biology</b> - Homeostasis	<b>Topics covered →</b> <b>Chemistry</b> – Rates and equilibria	<b>Topics covered →</b> Revision	<b>Topic covered →</b> Revision
<b>Assessment</b> w/b 28/09/2020 C1/B1/P1 Mini Mock	<b>Assessment</b> w/b 19/10/2020 Paper 1 Mocks	<b>Assessment</b> w/b 08/02/2021 Paper 1 Mocks	<b>Assessment</b> w/b 19/04/2021 Paper 2 Mocks	<b>Assessment</b> GCSE Exams	<b>Assessment</b> GCSE Exams
<b>Links to prior learning</b> - Food chains and webs - Predators and prey  - Wave properties. - Magnetic fields and solenoids.  <b>Stretch and Challenge Enquiry</b>  Where does your food come from? Is it local? What impact does it have on the environment?	<b>Links to prior learning</b> - DNA structure - Adaptations and variation  - Climate change and global warming. - Recycling  <b>Stretch and Challenge Enquiry</b>  Why is it ethical to recycle plastics? Should food be packaged in plastics?	<b>Links to prior learning</b> - Friction and gravity.  - reproduction - specialised cells.  <b>Stretch and Challenge Enquiry</b> How are cars designed to absorb forces and keep us safe in a crash?  Why are hormones so important to women menstruating?	<b>Links to prior learning</b> - making observation of experiments.  - products and reactants.  <b>Stretch and Challenge Enquiry</b>  Why is equilibria so important in industry?  Why are some methods of making chemicals not used even though they work?	<b>Links to prior learning</b>  Consolidation of GCSE knowledge.  <b>Stretch and Challenge Enquiry</b>  Working towards knowing the GCSE mastery criteria.	<b>Links to prior learning</b>  Consolidation of GCSE knowledge.  <b>Stretch and Challenge Enquiry</b>  Working towards knowing the GCSE mastery criteria
<b>Equipment Needed</b> Pen, pencil, ruler, calculator	<b>Wider Reading</b> Kay Science → <a href="https://www.kayscience.com/">https://www.kayscience.com/</a>  SENECA → <a href="https://app.senecalearning.com/dashboard/courses/add?Price=Free">https://app.senecalearning.com/dashboard/courses/add?Price=Free</a>  Science Journals for Kids → <a href="https://www.sciencejournalforkids.org/">https://www.sciencejournalforkids.org/</a>			<b>Family activities</b> Watch the news.  <b>Beat the Parent</b> – make flashcards and compete with your child. Who can get the most correct answers?  Support your child using educake for home learning.	

# The Bemrose School Curriculum

