

STMLC

Year Group 11

Subject :Combined Science

Exam board and specification: AQA 8464

Autumn Term 1	<p><u>Ecology/Ecosystem/Biodiversity</u>. Understanding communities, environments, adaptations, competition in animals and plants, how feeding relationships are represented in food chains.</p> <p><u>Radioactivity</u>. Describing the changes in the nucleus which occur during alpha, beta, and gamma decay , the concepts of activity, and the patterns in radioactive decay</p> <p><u>The Earth's atmosphere/The Earths resources</u> . Understanding the Earth's atmosphere and its history and the difference between finite and renewable resources.</p>
Autumn Term 2	<p><u>Reproduction</u>. Describing asexual reproduction, meiosis, fertilisation, and variation in sexual reproduction.</p> <p><u>Rates</u>. Understanding the factors that affect the rate of a reaction</p> <p><u>The nervous system</u>. Understanding the structure and functions of the human nervous system.</p> <p><u>Hormonal coordination</u>. Understanding the principles of hormonal control and the endocrine system.</p>
Spring Term 3	<p><u>Chemical analysis</u>. Applying various techniques for analyzing substances.</p> <p><u>Forces and balance</u>. Comparing vectors and scalars using the examples of distance and displacement along with the nature of forces.</p> <p><u>Electromagnetism</u> .Reinforcing our knowledge of magnetism and examining the magnetic field produced by a current.</p> <p><u>Variation/Evolution</u>. Discussing the causes of variation in terms of genetic, environmental, or a combination of both.</p> <p><u>Genetics</u>. Analysing the evidence for evolution, including the fossil record and reasons for extinction.</p>
Spring Term 4	Revision of paper 1 concepts
Summer Term 5	Revision of paper 2 concepts
Summer Term 6	GCSE examinations
Home learning	Students are set a variety of homework tasks including worksheets, research tasks and online tasks on Kerboodle. Students are also expected to revise regularly to ensure they are ready for end of topic tests.
One thing to do	Attempt all exam practice questions in the exam bundle and mark your own work.
How technology can support you	Online tailored resources from Kerboodle are available to support with your learning. Use websites that condense the AQA Science units into 20 minute videos.
By the end of KS4 you will be able to	Understand the variety of industries that scientists are employed in.

Serving God, striving for excellence

