



Science KS4 Long-Term Plan– Implementation Overview September 2023

Year 10

<u>Term Topic/Focus</u>	<u>Topic/Skills taught/used</u>	<u>Links to Previous Learning</u>	<u>Curriculum Links</u>	<u>Culture Capital</u>	<u>Outcomes</u>
Autumn Term 1	Entry Level Certificate (ELC) – Science Biology – The Human body	KS3 Cells, respiration, microbes & diseases topics	English – keywords Maths – calculating and measuring. ICT – researching and presenting information.	Spread of various diseases and treatment across the world. Different methods of contraceptive with places and religion. Foods from different countries.	Safely use scientific equipment including microscopes and show understanding of subject knowledge covered.
Autumn Term 2	Teacher devised assignment & external set assignment	Previous topics			
Spring Term 1	GCSE B1 Cell biology B2 Organisation	KS3 Cells and Respiration topics	English – keywords Maths – calculating and measuring. ICT – researching and presenting information. E.g., Stem cells, cancers and their treatment.	Different culture foods testing, spices/pasta/spaghetti.	Safely use scientific equipment including microscopes and show understanding of subject knowledge covered.
Spring Term 2	GCSE B3 Infection & response	KS3 Microbes & disease topic	English – keywords Maths – calculating and measuring. ICT – researching and presenting information. E.g., viral, bacterial and fungal diseases.	Spread of various diseases and treatment across the world.	Safely use scientific equipment including bacteria growing plates and show understanding of subject knowledge covered.
Summer Term 1	GCSE B4 Bioenergetics	KS3 Respiration, Plant for food, Plants and photosynthesis topics.	English – keywords Maths – calculating and measuring.		Safely use scientific equipment and show understanding of subject knowledge covered.
Summer Term 2	CATCH UP & REVISION! Paper 1 Assessment				



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Autumn Term 1 –	GCSE B5 Homeostasis & response	KS3 Respiration topic.	English – keywords Maths – calculating and measuring. ICT – researching and presenting information. E.g., contraceptives.	Different cultural methods of contraceptive methods and fertility.	Show understanding of subject knowledge covered.
Autumn Term 2 –	GCSE B6 Inheritance, Variation & Evolution	KS3 Inheritance & selection, Variation and classification topics.	English – keywords Maths – calculating and measuring. ICT – researching and presenting information. E.g., Genetic engineering.	Different breeds of animals and plants across the globe. Societies wanting boys' offspring's.	Show understanding of the subject knowledge covered.
Spring Term 1 –	GCSE CATCH UP B7 Ecology	KS3 Feeding relationship, Variation & classification, Environmental chemistry topics.	English – keywords Maths – calculating and measuring. ICT – researching and presenting information. E.g., Global warming.	Organisms found in different continent related to climate and food resources.	Safely use scientific equipment including quadrats and show understanding of subject knowledge covered.
Spring Term 2	GCSE B7 Ecology	KS3 Feeding relationship, Variation & classification, Environmental chemistry topics.	English – keywords Maths – calculating and measuring. ICT – researching and presenting information. E.g., Global warming.	Organisms found in different continent related to climate and food resources.	Safely use scientific equipment including quadrats and show understanding of subject knowledge covered.
Summer Term 1 –	GCSE REVISION/EXAMS				
Summer Term 2 –	GCSE EXAMS				