YEAR 10 Science Curriculum Trilogy Science

Holly Lodge High School
College of Science

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Focus	Biology Topic 3 Infection and response	Biology Topic 4 Bioenergetics	Biology Topic 5 Homeostasis	Biology Topic 6 Variation and Inheritance	Biology Topic 6 Variation and Inheritance	Biology Revision Topics 1 to 6
Key Tasks	Communicable diseases (viral, bacterial and fungal) Malaria Human defence systems Vaccinations Antibiotics Monoclonal antibodies Plant minerals, diseases and defence systems	Photosynthesis Rate and limiting factors Use of glucose Aerobic and anaerobic respiration Response to exercise Metabolism	Structure and function of the nervous system Reflex action Control of blood glucose Human endocrine systems Control of blood glucose levels Hormones	Types of reproduction Meiosis DNA and genome Genetic inheritance Inherited disorders	Selective breeding Genetic engineering Theory of evolution Fossils and extinction	Revision for Topics 1 to 6
Assessment	End of topic assessments	End of topic assessments	End of topic assessments	End of topic assessments	End of topic assessments	Science Mock Exam

				L1 Types of reproduction & meiosis L2 Advantages and disatvantages SS L3 DNA and the genome L4 making proteins SS L5 Genetic inheritance L6 Inherited disorders L7 The understanding of genetics L8 MID TOPIC L9 Selective breeding L10 Genetic engineering L11 Cloning SS L12 Theory of evolution L13 Speciation SS L14 Fossils and Extinction L15 Resistant bacteria L16 END OF TOPIC		

YEAR 11 Science Curriculum Trilogy Science

Holly Lodge High School
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Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Focus	Biology Topic 7 Ecology	Biology Topic 7 Ecology	Revision and exam preparation	Revision and exam preparation	Revision and exam preparation	Revision and exam preparation
Key Tasks	Classification Communities Biotic and abiotic factors Distribution of organisms Levels of organisation Trophic levels Carbon and water cycle	The human population Land and water pollution Air pollution and global warming Deforestation Maintaining biodiversity	Revision and past paper question practice	Revision and past paper question practice	Revision and past paper question practice	Revision and past paper question practice
Assessment	End of topic assessments	Mock exams	Practice questions	Practice questions	Practice questions	Practice exams

				L1 Types of reproduction & meiosis L2 Advantages and disatvantages SS L3 DNA and the genome L4 making proteins SS L5 Genetic inheritance L6 Inherited disorders L7 The understanding of genetics L8 MID TOPIC L9 Selective breeding L10 Genetic engineering L11 Cloning SS L12 Theory of evolution L13 Speciation SS L14 Fossils and Extinction L15 Resistant bacteria L16 END OF TOPIC		