



YEAR 10 Science Curriculum Separate 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 and the brain The eye Control of body temperature Human endocrine system Control of blood glucose Kidney function and failure Water and nitrogen balance Hormones	Types of reproduction Meiosis DNA and genome Protein synthesis Genetic inheritance Cloning Inherited disorders	Selective breeding Genetic engineering Theory of evolution Speciation 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

				<p>1 Types of reproduction & meiosis 2 Advantages and disadvantages SS 3 DNA and the genome 4 making proteins SS 5 Genetic inheritance 6 Inherited disorders 7 The understanding of genetics 8 MID TOPIC 9 Selective breeding 10 Genetic engineering 11 Cloning SS 12 Theory of evolution 13 Speciation SS 14 Fossils and Extinction 15 Resistant bacteria 16 END OF TOPIC</p>		
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YEAR 11 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 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 Decomposition	The human population Land and water pollution Air pollution and global warming Deforestation Maintaining biodiversity Food production Farming techniques Role of biotechnology	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

				<p>.1 Types of reproduction & meiosis .2 Advantages and disadvantages SS .3 DNA and the genome .4 making proteins SS .5 Genetic inheritance .6 Inherited disorders .7 The understanding of genetics .8 MID TOPIC .9 Selective breeding .10 Genetic engineering .11 Cloning SS .12 Theory of evolution .13 Speciation SS .14 Fossils and Extinction .15 Resistant bacteria .16 END OF TOPIC</p>		
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