

## Curriculum Map – Science Year 11

	1	2							
Y11 Biology	<b>Topic Title</b> Respiration	<b>Topic Title</b> The human nervous system	<b>Topic Title</b> Hormonal coordination	<b>Topic Title</b> Reproduction	<b>Topic Title</b> Variation and Evolution	<b>Topic Title</b> Genetics and Evolution	<b>Topic Title</b> Adaptations, interdependence and competition	<b>Topic Title</b> Organising an ecosystem	<b>Topic Title</b> Biodiversity and ecosystems
	<b>Big Questions:</b> How is energy transferred in aerobic respiration and anaerobic respiration?	<b>Big Questions:</b> How does the nervous system function and how can its response be measured?	<b>Big Questions:</b> How does the endocrine system maintain optimum internal conditions?	<b>Big Questions:</b> How are characteristics inherited through reproduction?	<b>Big Questions:</b> How does variation in a species allow for evolution to happen?	<b>Big Questions:</b> How do we know that evolution has happened in the past and that it is happening today?	<b>Big Questions:</b> What are adaptations?, Why are they so important when understanding ecosystems?	<b>Big Questions:</b> Why is the cycling of materials in nature so vital to life on Earth?	<b>Big Questions:</b> How do humans influence biodiversity on Earth?
Assessment	AUTUMN TERM Biology mock exam 1 hour and 15 minutes Paper 1 content	SPRING TERM Biology mock exam 1 hour and 15 minutes Paper 1 content	SUMMER TERM Biology mock exam 1 hour and 15 minutes Paper 2 content						

Y11 Chemistry	<b>Topic Title</b> Crude Oils	<b>Topic Title</b> The Earth's atmosphere	<b>Topic Title</b> The Earth's resources
	<b>Big Questions:</b> How do we get useful products from crude oil?	<b>Big Questions:</b> What is the Earth's atmosphere and how has it changed over	<b>Big Questions:</b> How are we seeking to make sustainable use of the Earth's limited

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		time?	resources?
Assessment	AUTUMN TERM Chemistry mock exam 1 hour and 15 minutes Paper 1 content	SPRING TERM Chemistry mock exam 1 hour and 15 minutes Paper 1 content	SUMMER TERM Chemistry mock exam 1 hour and 15 minutes Paper 2 content

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Y11 Physics	<b>Topic Title</b> Motion	<b>Topic Title</b> Forces in motion	<b>Topic Title</b> Forces and Pressure	<b>Topic Title</b> Wave properties	<b>Topic Title</b> Electromagnetic waves	<b>Topic Title</b> Light	<b>Topic Title</b> Electromagnetism	<b>Topic Title</b> Space
	<b>Big Questions:</b> How can we represent and calculate velocity, speed and acceleration?	<b>Big Questions:</b> How do motion forces interact and how are they calculated?	<b>Big Questions:</b> How do forces affect the way particles behave?	<b>Big Questions:</b> How do we calculate wave properties? What are reflection and refraction and how do these differ? How do we investigate waves?	<b>Big Questions:</b> What are electromagnetic waves, what are their properties and how do we use them?	<b>Big Questions:</b> What is light and how does it act?	<b>Big Questions:</b> What is magnetism, how can we interpret it and use it in conjunction with electricity?	<b>Big Questions:</b> How was the universe made and how can we see this?
Assessment	AUTUMN TERM Physics mock exam 1 hour and 15 minutes Paper 1 content	SPRING TERM Physics mock exam 1 hour and 15 minutes Paper 1 content	SUMMER TERM Physics mock exam 1 hour and 15 minutes Paper 2 content					