Curriculum Map – Alternative curriculum – Science – Year 9

	Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
Y9	Topic Title: Cells. Tissues and organs. The human digestive system.	Topic Title: Atoms, elements, mixtures and compounds. Solids liquids and gases. Changes of state. Metals and alloys. Allotropes of carbon. Polymers	Topic Title: Respiration. Health and exercise. Communicable diseases. Immunity. Vaccines. Medicinal drugs	Topic Title: Automatic control systems of the human body. Hormones. Use of hormones in controlling fertility.	Topic Title: Changes in energy stores. Energy transfers and efficiency. Energy resources. Types of forces. Effects of forces.	Topic Title: Speed. Stopping distances. Reaction time and stopping distances. Radioactivity
	Big questions: What is the human body made of and how is it organised?	Big questions: What are elements compounds and mixtures? How does their structure relate to their function?	Big questions: How does the human body work? How does the human body fight diseases?	Big questions: How is the human body co-ordinated?	Big questions: What is energy and how can it be transferred by forces or stored?	Big questions: What is energy and how can it be transferred by forces or stored?
	Assessment: TDA – Using a microscope.	Assessment: TDA – Compare the time needed to filter mixtures of water, and calcium carbonate that have different particle sizes. Chromatography – different colours of inks. Electrolysis.	Assessment: TDA – The effect of exercise on heart rate.	Assessment: TDA - Investigating a factor that affects reaction time.	Assessment: Explaining the surfaces cooling on a Leslie cube. TDA – How does a lid affect the cooling of a drink.	Assessment: TDA Investigating a factor that affects the rate of cooling of a container of water.

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		Preparing a salt sample.				