

## Curriculum Map – Science Alternative curriculum Year

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