## Unit Provision: KS4B Science Curriculum Learning Journey 2021 – 2022

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Term 1	Cultivating Herbs	- What plants need to live
		- Plant life cycles
		- Planting seeds
		- Caring for developing plants
Term 2	Acids and Alkalis	- pH scales
		- Planning experiments
		<ul> <li>Carrying out experiments</li> </ul>
		- Fair testing
		- Recording results
		- Predicting outcomes
		- Forming conclusions
Term 3	Light	- Know how light travels
		- Reflection and refraction
		- White light and the colour Spectrum
		- Making rainbows
		- Opaque, translucent and transparent materials
		- Shadows
		- Shadow puppetry
Term 4	Energy sources	- Fossil fuels
		- Renewable energy
		<ul> <li>Pros and cons of different energy types</li> </ul>
		- Environmental impact
		- Living more sustainably
		<ul> <li>Creating models of renewable energy concepts – water</li> </ul>
		wheel, windmills
Term 5	Dinosaurs and	- Identify dinosaurs
	fossils	- Know dinosaurs lived in air, oceans and on land
		- Match images of dinosaur skeletons to their full body shape
		- Dinosaur teeth and diet
		- Understand the term 'Extinct'
		- Make mould cast fossils
Term 6	Separating Materials	- Using magnets to separate materials
		<ul> <li>Using filtering to separate materials</li> </ul>
		<ul> <li>Using sieves to separate materials.</li> </ul>
		<ul> <li>Using evaporation to separate a solvent</li> </ul>
		- Know which separation process is appropriate for different
		mixtures.
		- Use Chromatography to identify colours within inks

## **Big Ideas:**

To develop understanding of the world around them.

To have a sense of awe and wonder and to question how and why things happen.

## **Individual Need:**

Students will access varying amounts of the big ideas content dependent on individual need.