



Unit Provision KS3: Science
Curriculum Learning Journey 2022-2023

Term 1	Physics: Sound	<ul style="list-style-type: none"> - Exploring instruments including; giving a single property, creating a range of sounds, investigates how to stop sound, feeling vibrations - Identify a range of sound sources, matching pictures of sound to sound source - Explores the terms near and far in terms of sound - Explains how sound reaches the ear including terms vibration, waves, signal - Makes a simple comparison between the length/size of an object to the pitch - Identifies materials through which sound travels - Suggests materials they could use to muffle the sound of a noisy toy - Describes the relationship between the pitch of a sound and the features of its source; and between the volume of a sound, the strength of the vibrations and the distance from its source
Term 2	Biology: Humans	<ul style="list-style-type: none"> - Recognises and labels parts of a body including facial features - Identify sexes - Identifies humans' basic needs, e.g. food, drink, exercise, oxygen - Describes the stages in the human life cycle simply, e.g. baby, child, adult - Indicates that humans have blood, bones and skin, understanding their purpose - Names and labels the human skeleton - Names and labels the organs - Identifies parts of the skeleton that protect organs e.g. ribs - Lists the five human senses matching them to the corresponding body part - Simply describes the process of food digestion using given vocabulary
Term 3	Chemistry - STEM Challenge	<ul style="list-style-type: none"> - Carries out experiments - Observe and respond to change - Recording data and information - Collects results - Grouping and classification - Graphs and charts - Data analysis



<p>Term 4</p>	<p>Physics - Forces and Magnets</p>	<ul style="list-style-type: none"> - Moves objects in a variety of ways using prepositional language - Explores 'push' and 'pull' including how materials can change shape e.g. using malleable materials - Identify what is friction and explores which material causes the most friction to an object - Identifies objects that are magnetic, sorting them into magnetic and non-magnetic - Describe simply what magnetic means - Classifies the action of magnets under the given headings of repelling and attracting e.g. when testing North to North - Explores how forces can change; shape, speed, direction of objects
<p>Term 5</p>	<p>Biology: Plants</p>	<ul style="list-style-type: none"> - Explores a range of plants giving a simple characteristic - Identify what plants need to grow; water, sunlight, soil - Compare plants that grow in light to those grown in dark - Compares plants to seasons and habitats - Identifies and labels parts of a plant including their purpose e.g. roots anchor plants, stem transports water - Sequences the life cycle of a plant - Identifies some plants give us food - Explores vegetation, collecting evidence to support this - Explores the word germination - Explores the terms "pollen" and "pollination", relating these to plant life cycles - Relates the term "photosynthesis" to plant nutrients and growth
<p>Term 6</p>	<p>Chemistry - Properties and changing of materials</p>	<ul style="list-style-type: none"> - Explores the properties of a range of materials e.g. waterproof, transparent, magnetic - Groups materials based on their properties - Matches items that adhere to property - Compares a variety of materials using different properties, e.g. solubility, conductivity - Explores the terms solid and liquid stating how to change substances from one to another - Changes a material back to its original state - Identifies some materials have reversable changes - Identifies some materials have irreversible changes - Identifies some substances mixed with water can be separated by filtering or sieving

Big Ideas:

To increase students overall understanding of how and why things work.

Individual Need:

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