

Science 24/25 MTP

Team	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
3	Animals Including Humans 1. What is the purpose of a skeleton? 2. what are some of the bones called in the skeletons of animals? 3. How does the body protect its organs? 4. How do muscles and bones work? 5. How do we fuel our bodies? 6. What does a healthy diet look like?	Magnets/ Forces 1. How do some forces interact? 2. How do things move on different surfaces? 3. What materials are magnetic? 4. How does distance affect magnets? 5. How does a magnet work? 6. What is a magnetic pull?	Light 1. What is light? 2. What is reflected light? 3. How can the sun affect us? 4. How are shadows formed? 5. What patterns are there to shadows sizes? 6. Why do we need light?	BSW 1. 2. 3. 4. 5. 6.	Plants 1. 2. 3. 4. 5. 6.	Rocks 1. 2. 3. 4. 5. 6.
4	States of Matter 1. How do I compare and group materials together according to whether they are a solid, liquid or gas? 2. How do I compare and group materials together according to whether they are a solid, liquid or gas? 3. What happens when some materials change shape when they are heated or cooled? 4. How do some materials change shape when they are heated or cooled? 5. What part does evaporation and condensation play in the water cycle? 6. How does evaporation change in relation to temperature?	Electricity 1. Can I identify common appliances that run on electricity? 2. Can I identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery? 3. Can I recognise some common conductors and insulators, and associate metals with being good conductors? 4. Can I recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit? 5. Can I construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers? 6. Can I construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers?	Animals including Humans 1. Can I describe the simple functions of the digestive system in humans? 2. Can I identify different teeth in humans and name their functions? 3. Do I know how to keep my teeth healthy? 4. Can I identify and compare teeth of carnivores, herbivores and omnivores? 5. Can I construct and interpret a variety of food chains? 6. Can I construct and interpret a variety of food chains identifying producers, predators and prey?	BSW 1. 2. 3. 4. 5. 6.	Sound 1. 2. 3. 4. 5. 6.	Living Things and Habitats 1. 2. 3. 4. 5. 6.
5	Forces 1. What is a force and how do we measure it? 2. what is gravity and is it affected by mass? 3. what are the effects of air resistance? 4. How can I make the most streamline vehicle? 5. what affects friction? 6. How do levers, pulleys and gears allow a smaller force to have a greater effect?	Earth and Space 1. How is the movement of the Earth and other planets, relative to the sun in the solar system? 2. What is the distance and size of Earth and other planet in relation to the sun? 3. What are the movements of the moon relative to the Earth? 4. How do the Sun, Earth and moon orbit in relation to one another?	Properties and Changes of Materials 1. - How can I compare and group together everyday materials based on their properties, including hardness, solubility, transparency, conductivity and response to magnets? 2. what is a solution? 3. can we recover a substance from a solution? 4. Are changes of state, caused by	BSW 1. 2. 3. 4. 5. 6.	Living Things and Habitats 1. 2. 3. 4. 5. 6.	Animals including Humans 1. 2. 3. 4. 5. 6.



		<p>5. What is the movement of the Earth in relation to the Sun? 6. Why do some meteors make larger craters than others?</p>	<p>heating always, sometimes or never reversible changes? 5. How can I make effective glue? 6. What do we know about what new materials can be formed from burning or the action of acid on bicarbonate of soda?</p>			
<p>6</p>	<p>Classification 1. How can I classify living things into broad groups? 2. How can I classify mini beasts? 3. What reasons can I give for classifying plants and animals based on their characteristics? 4. Why are plants and animals classified based on specific characteristics? 5. How are living things classified into broad groups based on their characteristics and similarities? 6. How are living things classified into broad groups based on their characteristics and similarities?</p>	<p>Electricity 1. What are the reasons for variations in how components function? 2. What are the recognised symbols when representing a simple circuit in a diagram? 3. How do you compare and give reasons for variations in how components function? 4. How is the volume of a buzzer associated with the number and voltage of cells used in a circuit? 5. How can simple electric circuits be designed and constructed for a specific purpose? 6. How can recognised symbols be used and understood when representing a simple circuit in a diagram?</p>	<p>Animals including Humans 1. What are the main parts of the human circulatory system and what are their functions? 2. How is heart rate measured? 3. How is heart rate measured? 4. How are nutrients and water transported around the body? 5. How does diet and exercise impact the way our bodies work? 6. How does smoking and drugs impact the way our bodies work?</p>	<p>BSW 1. 2. 3. 4. 5. 6.</p>	<p>Evolution and Inheritance 1. 2. 3. 4. 5. 6.</p>	<p>Light 1. 2. 3. 4. 5. 6.</p>