

IMPLEMENTATION - Progression in Science (Sticky Knowledge)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	<ul style="list-style-type: none"> Know the name of some common plants and trees. Know the main parts of the plant (leaves, stem, flower) 	<ul style="list-style-type: none"> Know that plants need water, light and warmth to grow. Name six parts of a flowering plant. 	<ul style="list-style-type: none"> Explain how water travels around a plant. Describe the life cycle of a plant. Know how seed dispersal, pollination and seed formation occur. 			
Animals, Humans & Living Things	<ul style="list-style-type: none"> Name the basic parts of the human body. Identify animals as carnivores, herbivores and omnivores. 	<ul style="list-style-type: none"> Explain a simple food chain. Identify, using a diagram, the main bones in the human body. 	<ul style="list-style-type: none"> Know the names and locations of different types of teeth. Explain a food chain using the terminology 'producer', 'predator', 'prey'. Know how the digestive system works. 		<ul style="list-style-type: none"> Know how the circulatory system works. Using a diagram, identify the key organs in the human body. 	
Materials	<ul style="list-style-type: none"> Know the names of, and identify, every day materials.. 	<ul style="list-style-type: none"> Identify and compare the suitability of a variety of everyday materials Find out how the shapes of solid objects can be made by twisting, stretching, bending and squashing. 	<ul style="list-style-type: none"> Know the properties of solids, liquids and gases. 		<ul style="list-style-type: none"> Explain the processes of changing solids to liquids, liquids to solids, liquids to gases and gases to liquids. 	
Seasonal Changes	<ul style="list-style-type: none"> Name the four seasons. 	<ul style="list-style-type: none"> Name the 12 months of the year, and explain which month falls within which season. 				
Rocks			<ul style="list-style-type: none"> Know key information about the different types of rock and their properties. Explain how fossils are formed. 			

Light		<ul style="list-style-type: none"> • Explain how light is formed. • Explain that shadows are formed when an object blocks a light source. 	<ul style="list-style-type: none"> • Recognise that light appears to travel in straight lines • Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye • Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
Forces		<ul style="list-style-type: none"> • Know that magnets have two poles. • Know that magnets may repel or attract based on the two poles closest to each other. 	<ul style="list-style-type: none"> • Know how air resistance and friction effects moving objects. • Explain the effect gravity has on a falling object.
Sound		<ul style="list-style-type: none"> • Know how sounds are made and the importance of vibrations. 	
Electricity		<ul style="list-style-type: none"> • Know common appliances which run off electricity. • Name conductors and insulators. 	<ul style="list-style-type: none"> • Identify recognised circuit symbols.
Evolution & Inheritance			<ul style="list-style-type: none"> • Know how animals are adapted to suit their environment.
Earth & Space			<ul style="list-style-type: none"> • Know the names and positions of the planets. • Know the importance of the sun in terms of the solar system. • Know and identify the phases of the moon based on a diagram or picture.