

What are the aims and intentions of this curriculum?			Year 5	
That children are: <ul style="list-style-type: none"> • allowed to explore and discover the science in the world around them. • are provided with the opportunities to develop their curiosity and to ask questions. • are taught the skills they need to find answers to their own questions. • are able to independently apply their skills to find the answers. 				
Term	Topic	Knowledge	Skills	Assessment
	Properties and changes in materials What are the properties and changes in different materials?	Know how materials can be grouped according to their properties, including, hardness, solubility, transparency, conductivity (electrical and thermal), and responses to magnets. Know that some materials will dissolve in liquid to form a solution. Know how to recover substances from a solution. Know how mixtures (of solids, liquids and gases) might be separated, including through filtering, sieving and evaporating. Know some particular uses of everyday materials, including metals, wood and plastic. Know that dissolving, mixing and changes of state are reversible changes. Know that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning, and the action of acid on bicarbonate of soda.	Compare Group/classify Give reasons Explain Separate Ask questions Devise Plan Predict Investigate Measure Record Interpret Conclude Ask (follow up questions)	
	Earth & Space What is space? Planets and solar system?	Know how the Earth (and other planets) move in relation to the Sun. Know how the moon moves in relation to the Earth. Know that the Sun, Earth and Moon are roughly spherical bodies. Know that day and night occur because of the rotation of the Earth. Know why the sun appears to move across the sky.	Observe Compare Group Research Explore Explain Give reasons	

Beit Shvidler Primary School – Science skills progression document Year 5



	<p>Animals Including Humans</p> <p>What is life cycle?</p>	<p>Know the changes humans go through as they develop to old age.</p>	<p><i>(Some aspects to be taught through the RSE Curriculum)</i></p> <p>Research Compare Sequence Record</p>		
	<p>Plants</p> <p>What is life cycle?</p>	<p>Know the life cycle of a flowering plant. Know how and why seeds are dispersed. Know what part a flower plays in the life cycle of flowering plants including pollination, seed formation and seed dispersal. Know the parts of a flowering plant including style, anther and filament.</p>	<p>Explore Notice Investigate Predict Sort Sequence</p>		
	<p>Forces</p> <p>What types of forces are there?</p>	<p>Know that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Know the effect of air resistance, water resistance and friction on moving surfaces. Know that some mechanisms, including levers, pulleys, and gears, allow a smaller force to have a greater effect.</p>	<p>Explore Notice Research Classify Devise Plan Predict Investigate Measure</p>	<p>Predict Observe Explain Fair test Invent Ask questions Record Interpret Conclude</p>	
	<p>Sustainability</p> <p>What is global warming and plastic pollution?</p>	<p>Know what global warming is. Know what plastic pollution is. Know what causes of global warming and plastic pollution.</p>	<p>Research Identify Give reasons</p>	<p>Observe Explain Ask questions record</p>	