

Beit Shvidler Primary School- Science skills progression document Year4



What are the aims and intentions of this curriculum?

Year 4

That children:

- are 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.

Term	Topic	Knowledge	Skills		Assessment
	Eating and Teeth What is the digestive system?	Know the basic parts of the digestive system in humans and their simple functions. Know the different types of teeth in humans and their simple functions. Know what a producer, predator and prey is. Know simple food chains.	Research Create/construct (a model) Observe Explore Identify	Describe Group/classify Record Investigate (fair test)	
	Living things and their habitats How do we group and classify living things? What is a habitat? What is a food chain?	Know that living things can be grouped Know some of the ways that living things can be grouped. Name a variety of living things in local and wider environment. Know some of the ways that environments can change. Know that change sometimes poses danger for living things.	Observe (over time) Compare Explore Notice Sort/classify Devise (an investigation) Investigate Record data Interpret results		
	Sound What's that sound?	Know that some sounds are made by something vibrating. Know that vibrations from sounds travel through a medium to the ear. Know that the pitch of a sound is affected by the features of the object that produced it.	Explore Observe Describe Classify (sources) Measure	Ask (questions to be investigated) Investigate Measure Record	

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		Know that the stronger the vibration the louder the sound. Know that sounds get fainter as the distance from the source increases.	Notice (patterns)	Conclude Report	
	Electricity What is electricity?	Know some common appliances that run on electricity. Know the parts of a simple series circuit, including cells, wires, bulbs, switches and buzzers. Know whether or not a bulb will light in a simple series circuit (based on whether or not the lamp is part of a complete loop with a battery). Know that a switch opens and closes a circuit (and this affects whether or not a lamp will light in a simple series circuit).	Construct (circuits) Explore Classify Compare Ask – enquiry questions Devise	Investigate Discover Measure Record Conclude	
	Materials: States of Matter What are the states of matter?	Know that materials can be grouped into solids, liquids and gases. Know that some materials change state when they are heated or cooled. Know the temperature at which change of state occurs in degrees Celsius (°C) Know the part played by evaporation and condensation in the water cycle. Know that the rate of evaporation is associated with temperature.	Observe Explore Compare Notice Describe Classify Identify	Ask (questions) Devise Predict Measure Record Report	
	Sustainability What is deforestation? How do we conserve our energy usage?	Know what deforestation is. Know causes of deforestation. Know how to conserve energy usage. Know ways how to save energy.	Research Compare Describe	Record Ask questions Conclude	

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