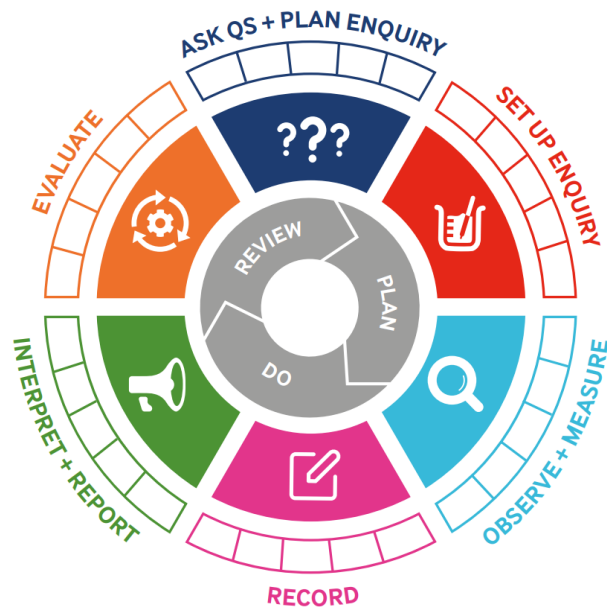


## Science progression for Year 4 at Probus Primary School

### Working Scientifically:



- Asks relevant questions and uses past knowledge when considering new investigation
- Can set up simple practical enquiries and understand a fair test. Can understand that changing only one variable is the best method for testing.
- Can make careful observations using notes and simple tables and drawing. In drawing can consider scale and detail.
- Can take accurate measurements using standard units of length, time and heat. Use mm and cm. Use negative numbers.
- labelled diagrams neatly, use keys, bar charts, and simple tables. Use headings to clarify what information is being collected.
- Draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- Use scientific evidence to answer questions or to support their findings relate the results to scientific knowledge
- identifying differences, similarities or changes related to simple scientific ideas and processes
- Use independent research including secondary sources to help them to answer questions
- Know how to use a microscope, magnifying lens, thermometer.
- Begin to use data loggers to gather data.

### Animals including Humans

- Describe the simple functions of the basic parts of the digestive system in humans
- Identify the different types of teeth in humans and their simple functions. **Incisors, molars, canines**
- Construct and interpret a variety of food chains, identifying **producers, predators and prey.**

### Living things and their Habitats

- Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- Recognise that environments can change and that this can sometimes pose dangers to living things.
- Know the groups **Vertebrates Amphibians, reptiles, birds, fish and mammals.**

### Invertebrates insects, molluscs and arachnids

### States of Matter

- Compare and group materials together, according to whether they are **solids, liquids or gases** including states of water
- Observe that some materials change state when they are **heated or cooled**, and measure or research the temperature at which this happens in **degrees Celsius (°C)**
- Identify the part played by **evaporation and condensation in the water cycle** and associate the rate of evaporation with temperature.

### Sound

- Identify how sounds are made, associating some of them with something **vibrating**
- Recognise that vibrations from sounds travel through a **medium to the ear**
- **Pitch, and Volume**

### Electricity

- Identify **common appliances** that run on electricity
- Construct a simple series circuit, identifying/naming its basic parts, including **cell, wire, bulb, switch and buzzer**
- Draw the circuit as a pictorial representation including **lamp and buzzer**
- **Precautions for working safely with electricity.**
- Recognise that a **switch** opens and closes a circuit Recognise some **common conductors and insulators**, and associate metals with being good conductors.

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