



Eden Park Primary School Knowledge Organiser

**Prior Knowledge**

- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

Word	Meaning
Solid	Hard
Liquid	Can be poured
Gaseous	Keeps out water
Oxygen	Gas in air
Water vapour	Evaporated water (Gas)
Particles	Smallest part of a substance
reflective	Bounces light back

The Powerful Knowledge we will take away from this science topic:

- Compare and group materials together, according to whether they are solids, liquids or gases.
- 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.

Investigation

Predictions of heating and cooling, with children recording temperatures using thermometer and data loggers.

Cloud in a bottle to show water cycle

Working scientifically

Make systematic and careful observations using a range of equipment, including thermometers and data loggers.

Take accurate measurements using standard units, where appropriate

Gather, record, classify and present data in a variety of ways to help answer questions.