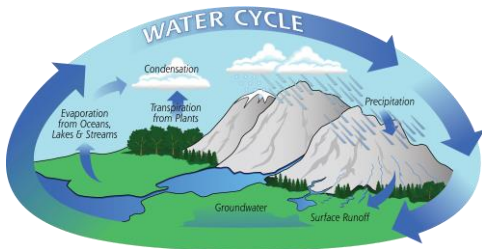


What should I already know?

- 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.

Knowledge

- 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



States of matter (Science)

Year 4

Skills

- grouping and classifying a variety of different materials;
- exploring the effect of temperature on substances such as chocolate, butter, cream (for example, to make food such as chocolate crispy cakes and ice-cream for a party).
- researching the temperature at which materials change state, for example, when iron melts or when oxygen condenses into a liquid.
 - observing and recording evaporation over a period of time, such as a puddle in the playground or washing on a line, and
 - investigating the effect of temperature on washing drying or snowmen melting.

Vocabulary

- Material
- Solid
- Liquid
- Gas
- Degrees Celsius (°C)
- Temperature
- Evaporation
- Condensation
- Substance
- Melt