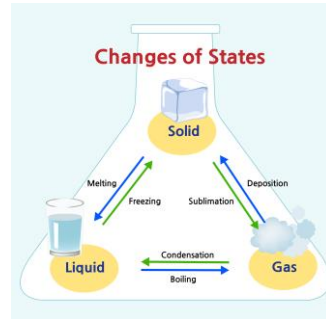


Y4 Science – States of Matter

Knowledge

- I can identify the part played by evaporation and condensation in the water cycle.
- I can explain how changes in temperature can change the rate of evaporation and condensation.
- I can explain evaporation and condensation.
- I can compare and group materials together according to whether they are solids, gases or liquids.
- I know these states can be reversed.
- I can 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 ($^{\circ}\text{C}$).



Cross Curricular links/Past knowledge

(Y2 - Science: Materials)
(Y1 - Science: Materials)
(Y4 - DT: Create vehicles)
(Y4 - DT: Cooking)

Vocabulary

Appliances, electricity, electrical circuit, cell, wire, bulb, buzzer, danger, electrical safety, sign, insulators, wood, rubber, plastic, glass, metal, water, open, closed, switch.

Working Scientifically

- I can ask questions and offer my own ideas for scientific enquiry.
- I am beginning to know when I should use a fair test to answer a question or when I should collect evidence in other ways.
- In a fair test, I can identify what to keep the same, what to change and what to measure and observe. I can plan the main steps in other types of enquiry. I can recognise most hazards and beginning to plan how to control risks.
- I predict outcomes and sometime suggest reasons for my prediction.
- I can select appropriate equipment. I am beginning to consider the scale & degree of accuracy on some measuring equipment.
- I can use basic equipment correctly and safely. I am beginning to deal with equipment failures.
- I can make a series of observations. I can use standard measuring equipment for most quantities.
- I can make a general statement about simple patterns in results.
- I can make further predictions from results in simple contexts.
- I can provide explanations for simple patterns in results.
- I can suggest how the enquiry might be improved. I am beginning to recognise some of the limitations of my evidence.