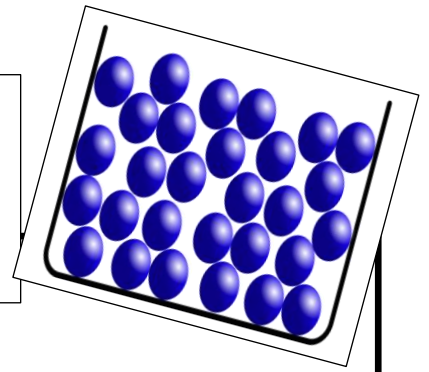
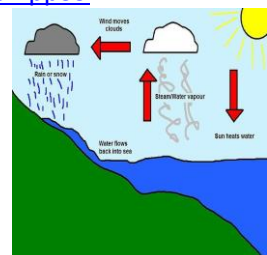


How you present your work is up to you, e.g. labelled diagrams, posters, power-points, cut and stick designs or other.

Y4 SCIENCE. Summer Term 2020 States of Matter



- Watch the video clip <https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/zsgwwxs>
Explain what the three states of matter are and the differences between them.
- List some everyday solids, liquids and gases. Do you know, or can you find out, what they are used for? Put this information into a fact file or poster.
- What do you understand by the words 'freezing' and 'melting'? Watch the video clip <https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/z9ck9qt> . **With an adult's permission** freeze some water (e.g. ice cubes in the freezer) and then see what happens when it warms up to room temperature or heat some chocolate until it melts. Do liquids keep the same shape as solids? Draw pictures to show what happened?
- Carry out your own research into what temperature a range of different solids melt at (e.g. ice, steel, aluminium, plastics). Record your answers in a table. Do all solids melt?
- Evaporation and condensation
Liquids and gases can be changed from one state to another by heating or cooling. Heat can turn a liquid into a gas and cooling can cause a gas to turn to a liquid. If water (liquid) is heated, it changes to water vapour (gas). This change is called **evaporation**. If water vapour (gas) is cooled down, it changes into water (liquid). This change is called **condensation**.
- **With an adult's permission** put some water into a shallow dish and leave it on the window sill. What happens to the water? Can you explain? You may have to wait for a few days or even a week to see any changes.
- Using the words above explain how the water cycle works - you could draw a labelled diagram, use ICT or make a model. Do your own research or watch <https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/z3wpp39> .



- Finally make up a quiz to give to someone in your family to see what they know about states of matter.