

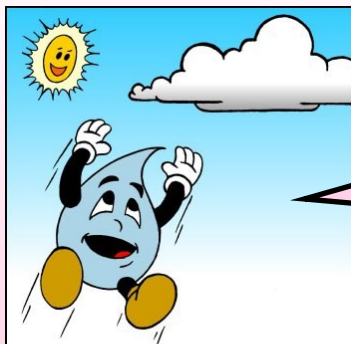
## Year 4 Science: Changing States

Enquiry questions: How do materials change state?

condensation	particles
cooling	precipitation
evaporation	process
freezing	properties
freezing point	solid
gas	temperature
heating	vibrations
liquid	water cycle
melting	water vapour
melting point	

### Significant individuals:

<b>Bernard Palissy</b>	<p>Discovered the water cycle</p> <p>1510-1590) Bernard Palissy was a French potter and scientist. He is often credited as the man who 'discovered' the modern theory of the water cycle. He asserted that rainfall alone was sufficient for the maintenance of rivers. Melting is a change of state from solid to liquid.</p>
<b>Anders Celsius</b>	<p>Invented the thermometer in degrees Celsius</p> <p><i>Anders Celsius</i>, (born November 27, 1701, died April 25, 1744,) was an astronomer who invented the Celsius temperature scale</p>



We will read this text.

### Scientific enquiry questions:

- Can they compare and group materials together, according to whether they are solids, liquids or gases?
- Can they explain what happens to materials when they are heated or cooled?
- Can they measure or research the temperature at which different materials change state in degrees Celsius?
- Can they use measurements to explain changes to the state of water?
- Can they identify the part that evaporation and condensation has in the water cycle?
- Can they associate the rate of evaporation with temperature?