How do some solids, liquids and gases change state?


Class Tamar
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We began our lesson sorting solid, liquid and gases into their correct group. We then learnt about the properties of each. We presented our learning to the class using resources to help us explain each state of matter in detail.


We planned an experiment based on how long chocolate will melt using different temperatures.
We predicted that the highest temperature will melt the chocolate the fastest because ice will melt quicker the hotter the space it is in. We discussed how we would make sure that this will be a fair test: by keeping the volume of water the same, by having the same amount of chocolate for each tray and by keeping our experiment in one place (not moving it around!).


We set up and carried out our experiment. We found out that the highest temperature (around $65^{\circ} \mathrm{C}$ ) melted chocolate the fastest (just as we predicted) however many of us were surprised that the chocolate didn't melt at all for the lowest temperature $\left(18^{\circ} \mathrm{C}\right)$.


We learnt about the different ways that water changes state between ice, water and water vapour. We observed how water vapour (or steam) from the kettle turned back into water droplets when it hit a cooler object. We learnt what each processes is called that cause water to change state by either cooling or heating it and made a diagram to show this.


We learnt about the water cycle and sang a song to help us remember the process of the water cycle. We then had a go at presenting what we had learnt to the class using our own illustrations and diagrams.


## What I have learnt before:

- In class Cremyll we learnt how to identify, name and describe a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.



