

BLACKROD PRIMARY SCHOOL

Spring Project Reflections

Science – States of Matter



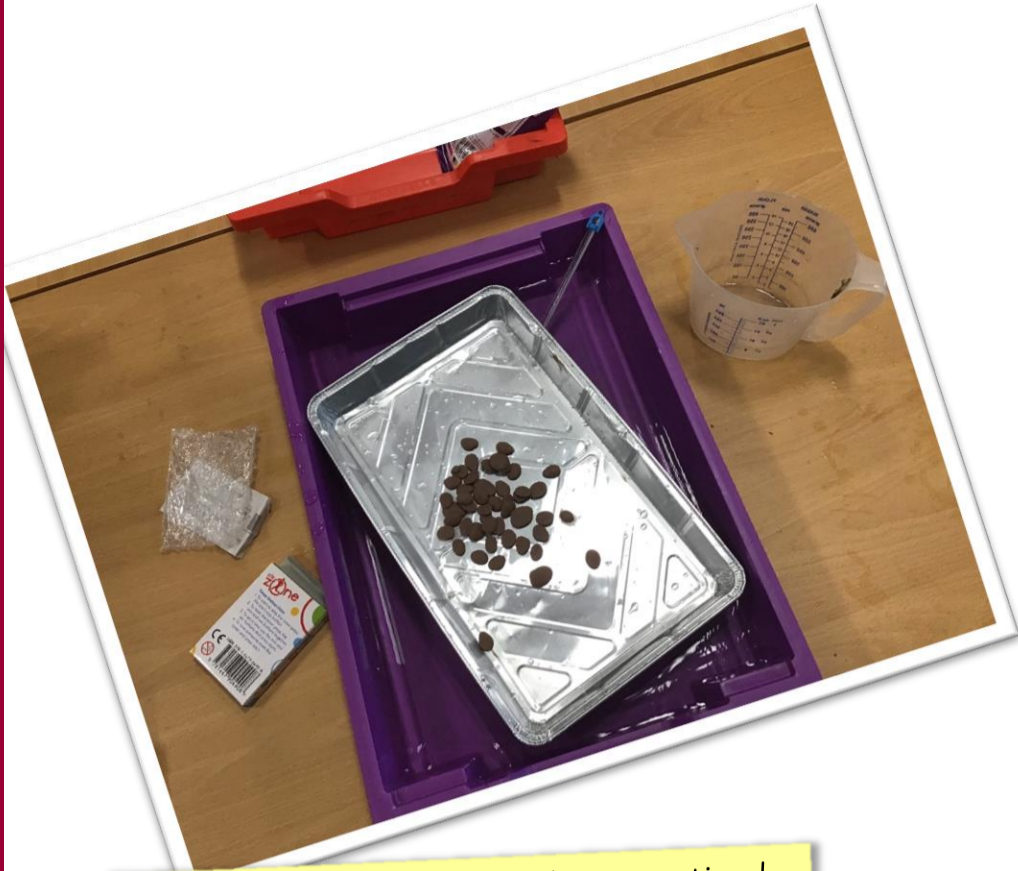
S/IM5 Comparing and grouping materials together, according to whether they are solids, liquids or gases.



- Key Vocabulary
- Solid
 - Liquid
 - Gas
 - Melting point
 - Particles
 - Evaporation
 - Condensation
 - Precipitation
 - Collection

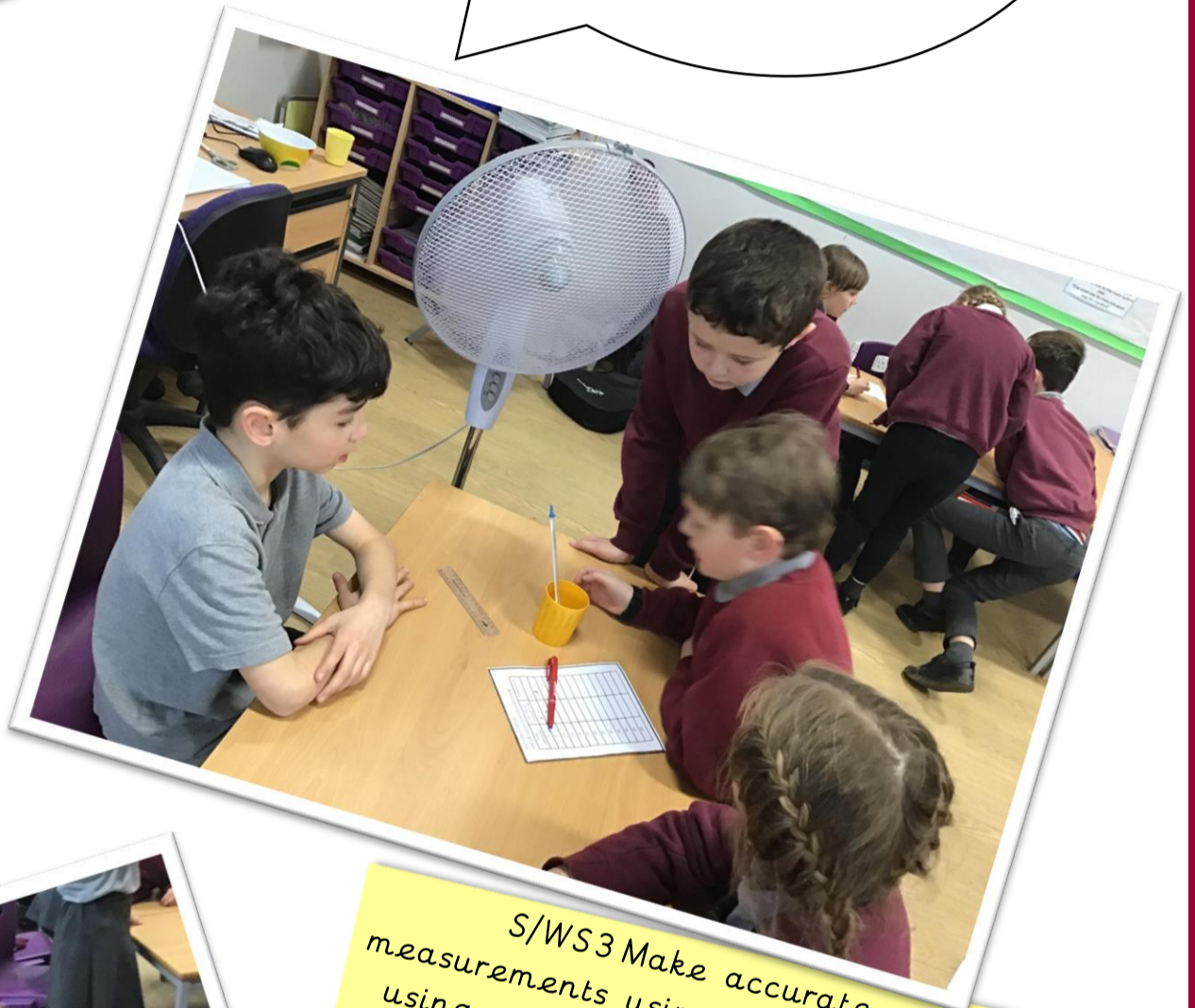


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S/WS2 Setting up simple, practical enquiries and comparative and fair tests.

S/IM6 Observing that some materials change state when they are heated or cooled, and measuring the temperature at which this happens in degrees Celsius ($^{\circ}\text{C}$).



S/WS3 Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers.



S/WS5 Recording findings using simple scientific language, drawings, labelled diagrams, bar charts and tables.

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S/WS1 Asking scientific questions relating to our experiments.

① What temperature did the 'hat' results rise to? How long did it take?

② Which experiment took the longest to melt?

③ How long did it take the cold water to melt the ice?

④ How long did it take?

⑤ Which method melted the ice the quickest?

⑥ Which experiment took over an hour?

⑦ How did we make it a fair test?

Pop Questions



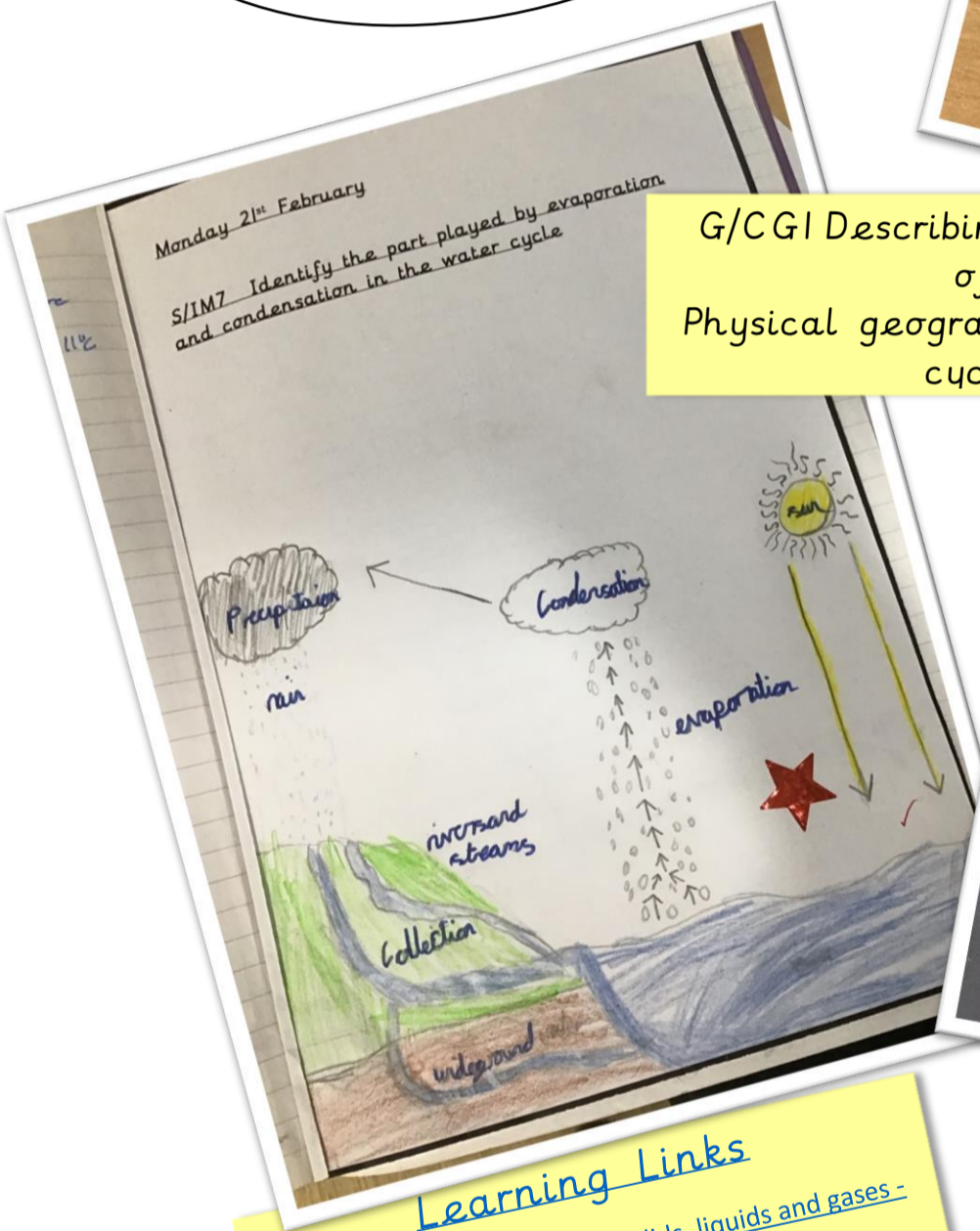
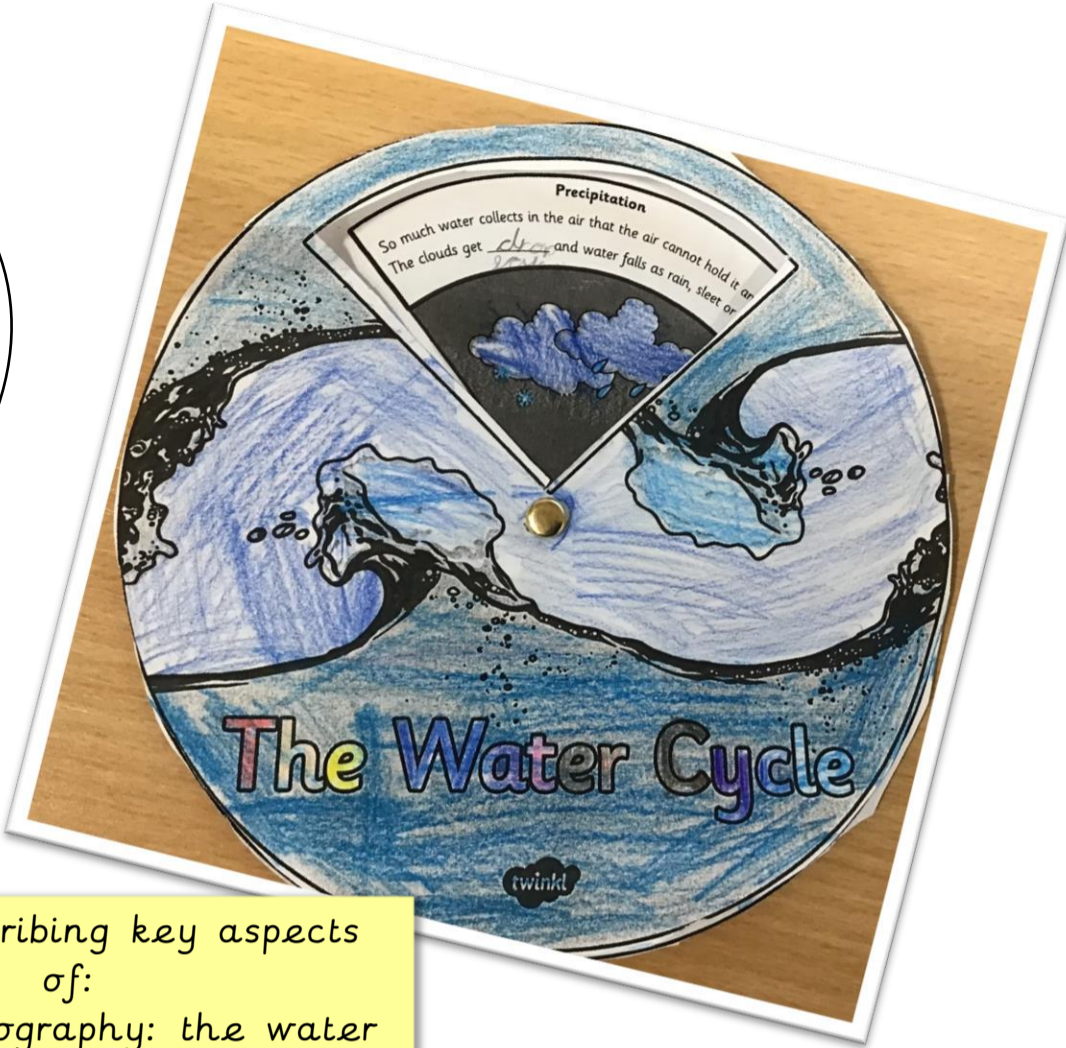
S/WS4 Gathering, recording, classifying and presenting data in a variety of ways to help answer questions.

Tuesday 1st February
S/WS 4 & 5 gather, record and present findings

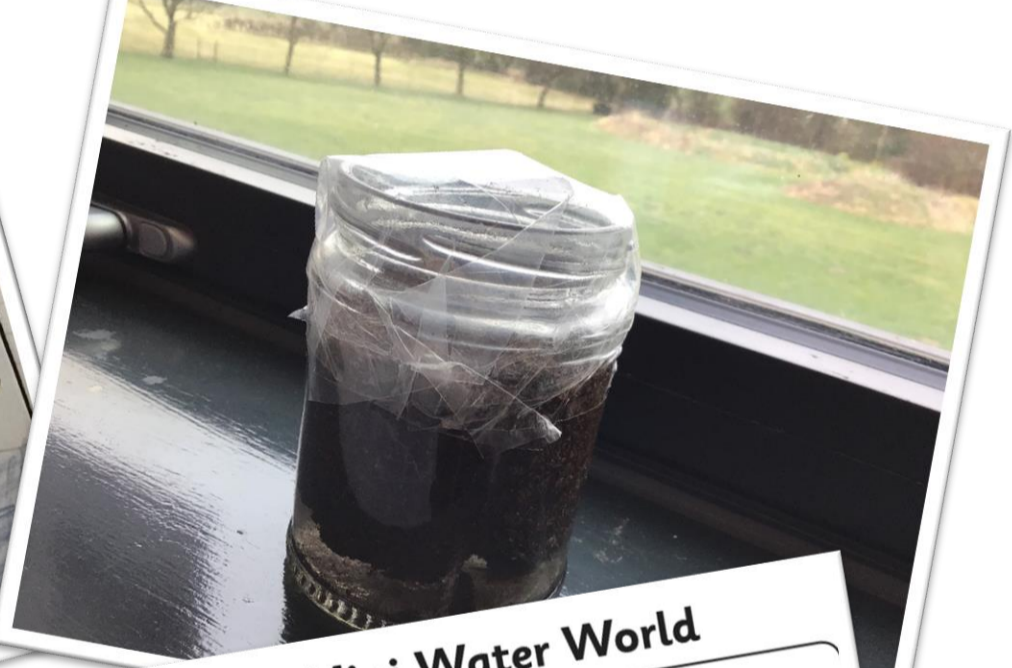
	Tray 1	Tray 2	Tray 3
Temperature of water	70°	50°	35°
Time taken to melt	2 min	4 min	7 min
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
	70°	50°	35°
	Temperature of the water		

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S/IM7 Identifying the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.



G/CGI Describing key aspects of:
Physical geography: the water cycle.



Learning Links

[The behaviour of particles in solids, liquids and gases - KS2 Science - BBC Bitesize](#)

[What are freezing and melting? - BBC Bitesize](#)

[How do you make sure a test is fair? - BBC Bitesize](#)

[What is evaporation and condensation? - BBC Bitesize](#)

[What is the water cycle? - BBC Bitesize](#)

Mini Water World

Follow these instructions to make your own Mini Water World!

Place a layer of compost in a clear plastic cup.

Sprinkle some cress seeds onto the compost.

Pour on enough water to make the compost damp, but not soaking.

Stretch cling film over the cup to form a lid.

Over the next few days, watch your Mini Water World. You should be able to see the water cycle in action!

The water from the compost will evaporate as water vapour. When it rises, it will hit the cooler cling film and condense, forming water droplets on the cling film. As these droplets grow bigger, they will get heavier, and eventually fall from the cling film back onto the compost. The cycle will then start again!