

Unit 5D: Changing State



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Changing State







Some useful words

Evaporation	when a liquid	I changes to a vapour	(gas)
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Condensation	when a vapour	'changes '	to a li	guid

Boiling temperature	the temperature	at which a liqui	id boils,	for water it is 100 C)
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State	the 3 states are	solid liquid ar	nd aas
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Change of state when a substance changes from one state to another



Evaporation







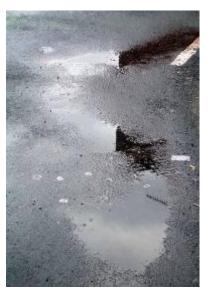
Other liquids





How quick does a puddle dry up?







Which puddle do you think will dry up the quickest? Why do you think this?

What factors do you think affect how quickly a puddle dries up?

Temperature Wind Volume of water Surface area of puddle

Choose one of these to investigate

...cont

Make a prediction. What do you think you will find?

What apparatus will you need?

Explain how you will carry out your experiment?

What will you measure?

How will you record your results?

How will you keep the test fair?

Support slide



The bowls represent puddles with different surface areas

Which of the bowls of water do you think will dry up the quickest? Why do you think this?

To make sure the test is fair, each 'puddle' must have the same volume of water in it and they need to be kept in a room at the same temperature.

The time it takes for each 'puddle' to evaporate needs to be recorded. We will check the 'puddles' every day to see which evaporates the quickest

Drying







How do these appliances help things dry more quickly?

Condensation





Where else do we see condensation?

More Condensation





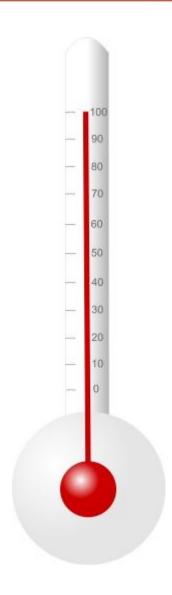


Unit 5D: Boiling Water

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Boiling Water





Melting Ice





Take the temperature of the ice and water every 5 minutes for 2 - 3 hours. Record the results.

Time	Temperature

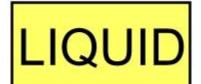
...cont

What temperature did you end up at?

What do you think would have happened if the room was 10 degrees hotter?

Change of State

SOLID



GAS

The Water Cycle

