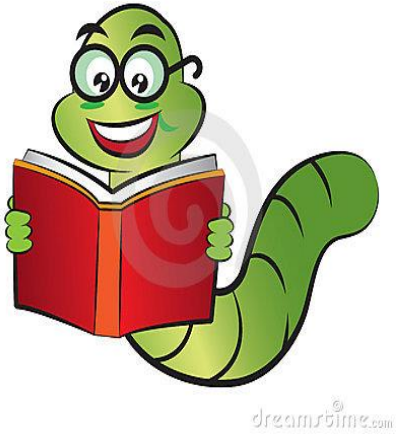
Changing materials

WALT

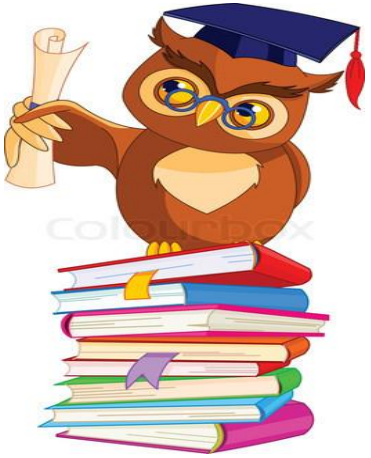
We
Are
Learning
To



- About changing states of material.
- Observe/predict/record

WILF

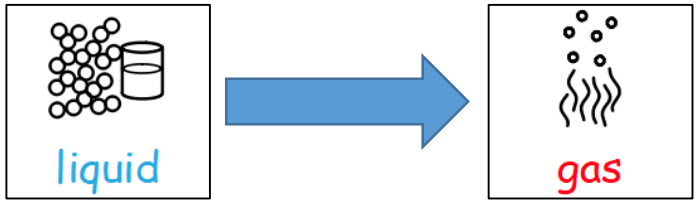
What
I'm
Looking
For

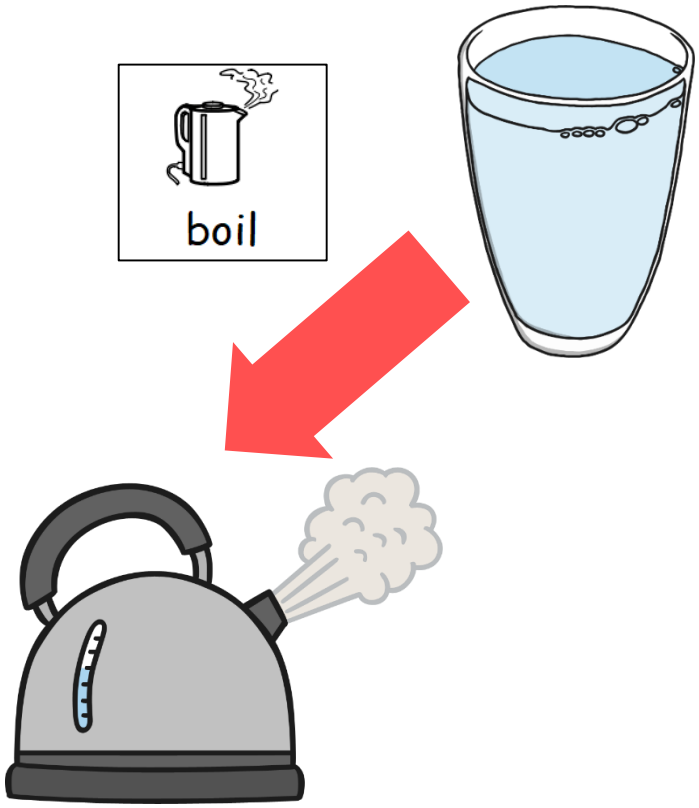


1. Observe and (with support) say what happens when we freeze or melt water/ice.
2. Record how long ice takes to melt.
3. Predict and record how long ice takes to melt.

Boiling

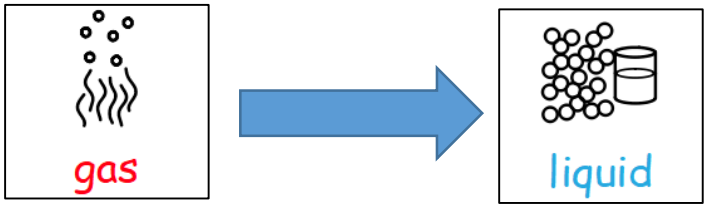
Boiling is the term used to describe **liquid** turning to **gas** at a higher temperature than evaporation.





Condensation

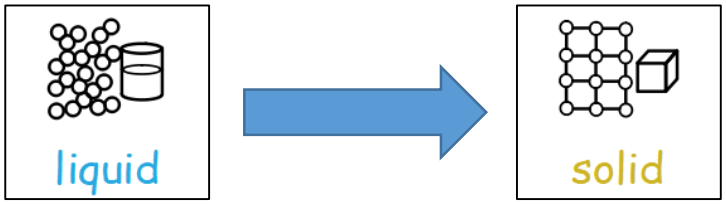
Condensation is the scientific term for when a **gas** turns into a **liquid**.



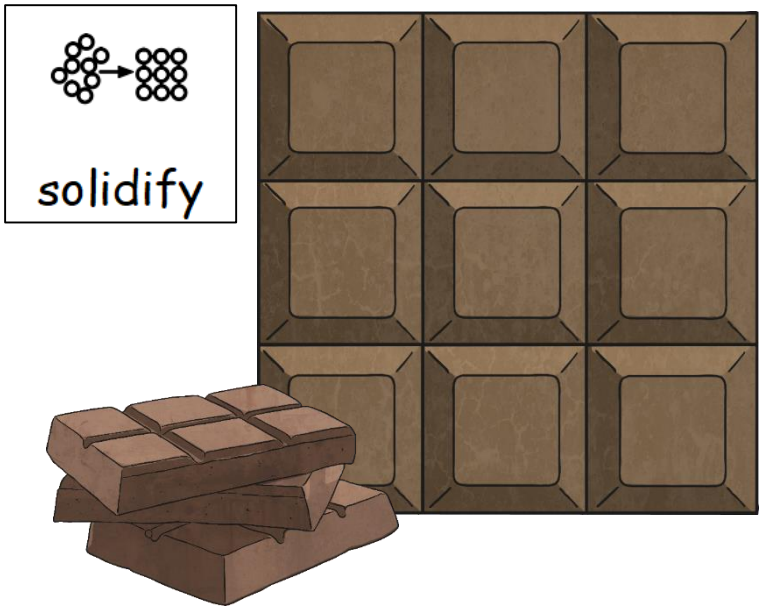
You can see this happening in hot rooms when the water vapour in the air touches cold glass of a mirror or window.

Solidifying

Solidifying is when a **liquid** becomes a **solid**.

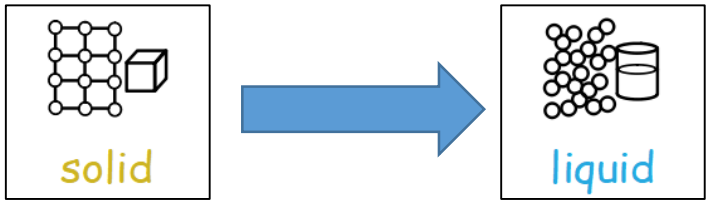


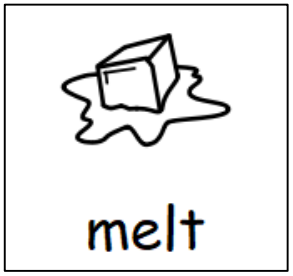
Chocolate is solid at room temperature. It does not need to be frozen or chilled to become solid again.



Melting

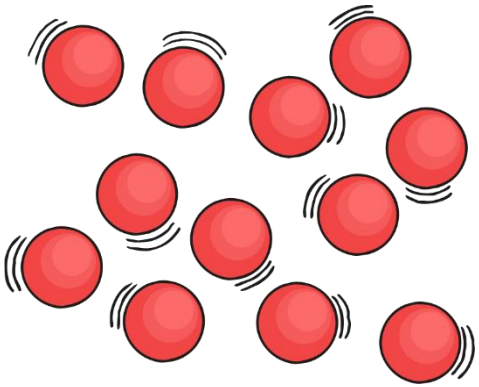
Melting happens when a **solid** turns into a **liquid** from being heated.



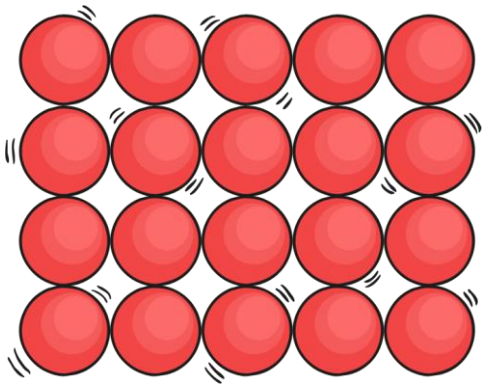


Particles

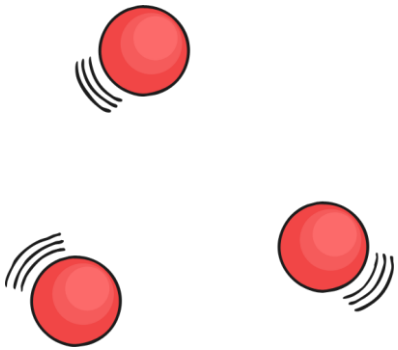
- Can you tell which of the below are gas, solid and liquid particles?



liquid



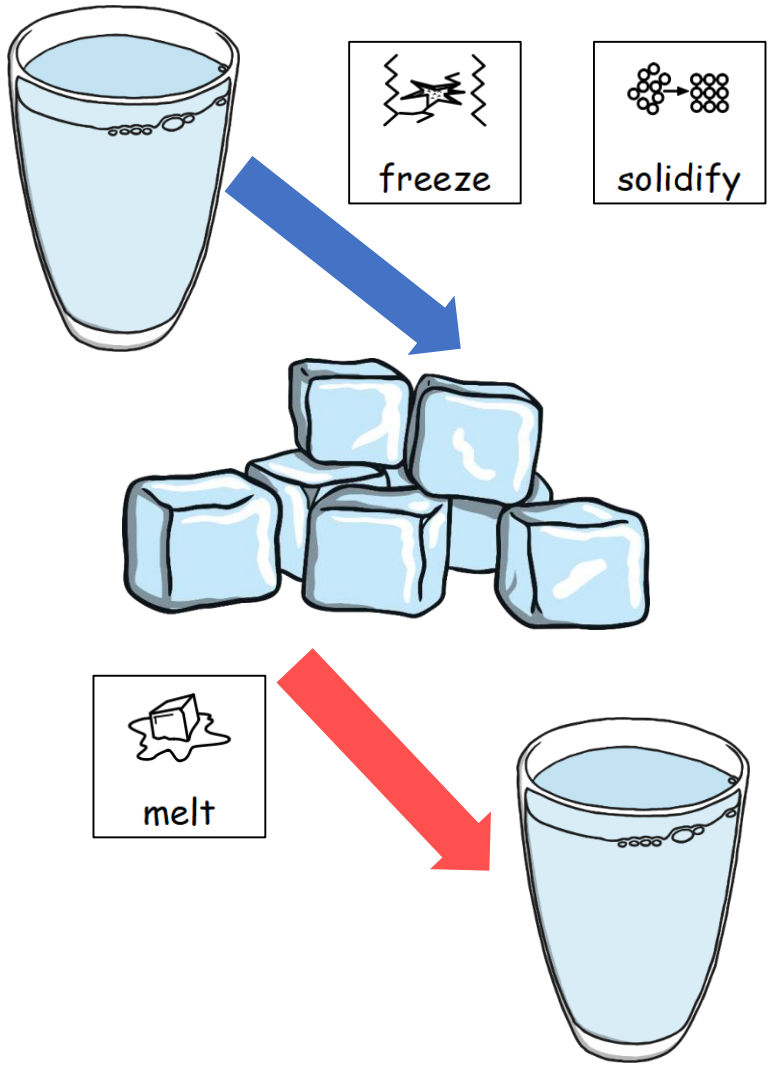
solid

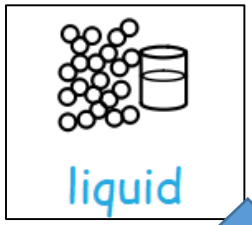


gas

answers

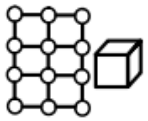
Today we will be looking at **freezing (solidifying)** and **melting**.





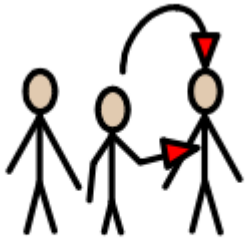
liquid

Water is a liquid. It is runny and it can be poured.



solid

When water is frozen it becomes solid, that means we can hold it.



your turn




Pour water into an ice tray.

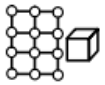

You can add some food colouring!



Put it in the freezer.

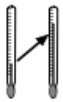
what do think will happen to the water?

Melting

Melting happens when a solid

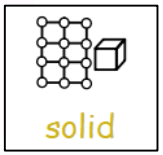


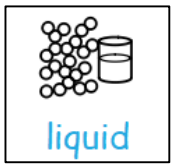


turns into a liquid from being heated.

Lets look at some examples.

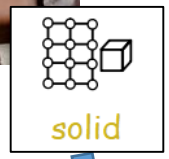
Ice cream is a solid.





When ice cream gets warm it **melts** and becomes soft and a liquid.

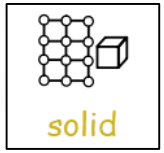
Chocolate is a solid.



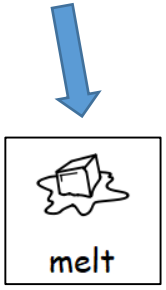
But if you cook it, it **melts** and becomes a liquid.

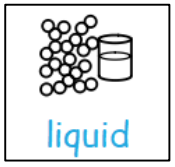
Butter is a solid.

When you put butter on hot toast it **melts** and becomes soft and a liquid.

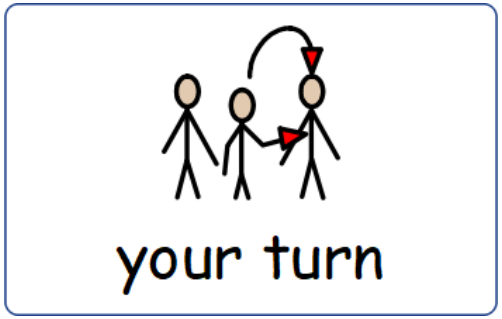


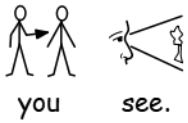
The candle is hard. It is a solid.





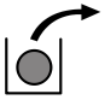
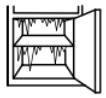
When we light the candle, the wax **melts** from the heat of the flame and becomes soft and a liquid.





your turn



Take the ice tray out of the freezer.



What happened to the water?

your turn

Option 1

Put the ice in a tray

or a piece of paper.

Play with it and watch it melt.

your turn

Option 2

Put the ice cubes in bowls and place them in different parts of the house.

Record how long it takes for them to melt.

RECORDING SHEET

Record how long it takes for the ice to melt.

Where?	How long?

your turn

Option 3

Put the ice cubes in bowls and place them in different parts of the house.

Predict in which order they will melt.

Record and check if you were right.

Before the experiment

Make predictions about your experiment.

I think the ice in/on _____ will melt last.

I think the ice in/on _____ will melt last.

After the experiment

Were your p

The ice in/on _____

The ice in/on _____

RECORDING SHEET

Record how long it takes for the ice to melt to check if your prediction is correct.

Where?	How long?

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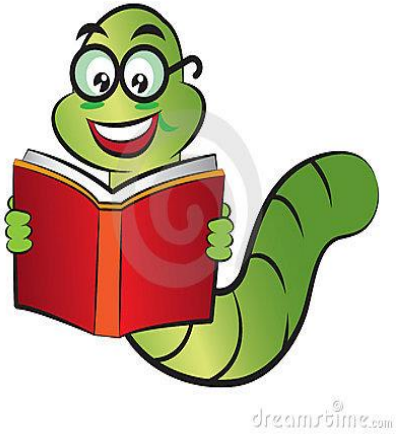

- About changing states of material.
- Observe/predict/record

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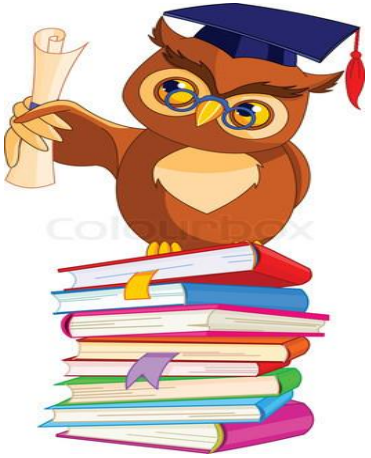

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2. Record how long ice takes to melt.
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