




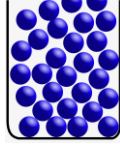



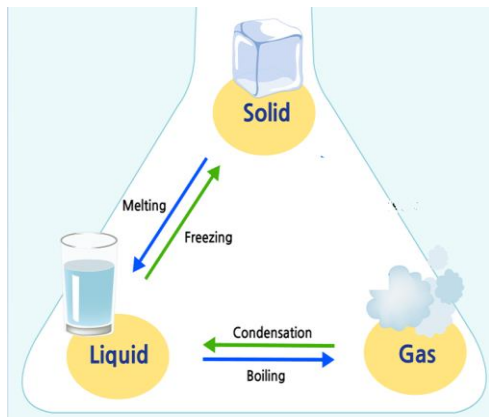
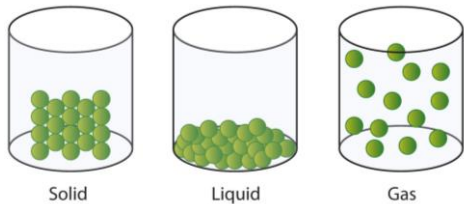


# States of Matter (Y4)

## Vocabulary

cool	condensation	evaporation	freeze	melt	particle	precipitation	solidify	water vapour
								
Lower the <b>temperature</b> of something.	Water vapour or <b>gas</b> turning into <b>liquid</b> .	<b>Liquids</b> change to a <b>gas</b> or vapour.	At 0°, <b>liquid</b> turns into a <b>solid</b> .	<b>Solid</b> turns into a <b>liquid</b> when it is <b>heated</b> .	<b>Tiny bits of matter</b> that make up everything.	Water that <b>falls to Earth</b> .	Become a <b>solid</b> when <b>cooled</b> .	<b>Mist, steam</b> and <b>clouds</b> .

## Big Ws: States of matter



## Big Ws

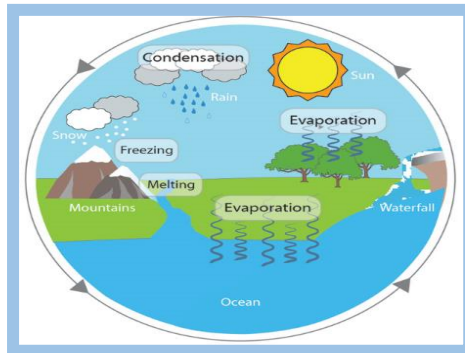
### Heating

- If **ice** (solid) is heated, it changes to **water** (liquid).
- **Water** (liquid) can change to **water vapour** (gas). This is called **evaporation**.
- If **water** (liquid) is **heated until it boils (100°C)**, it changes to **water vapour** (gas) very quickly.

### Cooling

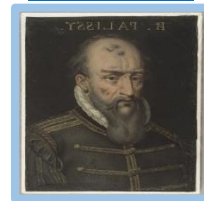
- If **water vapour** (gas) is **cooled** it changes to **water** (liquid).
- This change is called **condensing**.
- If **water** (liquid) is **cooled**, it changes to **ice** (solid). This change is called **freezing**.
- Water freezes at **0°C**.

## Big Ws: The water cycle



## Important People

### Bernard Palissy (1510 – 1589)



- The first person to describe the idea of the **water cycle**.

### Baptista van Helmont (1580-1664)



- Through his experiments, came up with the word **gas**.