SOLID, LIQUID AND GASES

1. Sort these items into solid, liquid or gas by drawing lines to the correct state of matter.

A wooden chair	•	
The bubbles in my lemonade	•	• Solid
Orange juice	•	
Tomato ketchup	•	• Liquid
A piece of chocolate	•	
The helium inside my balloon	•	• Gas

2. If you put something in a container, how could you tell if it was a liquid?

3. Choose TRUE or FALSE

Statement	True or False?
Gases can be squashed	
Solids can change shape on their own	
Gravity keeps liquids at the bottom of a container	
Gases don't weigh anything	

4. Choose the appropriate answer for each word/definition, how do particles behave in:

State of Matter	How do the particles behave?
Solid	
Liquid	
Gas	

5. How can we investigate if gases have different weights by using a balloon and some weighing scales?

6. Choose Heat or Cool on the table to show how states of matter can change:

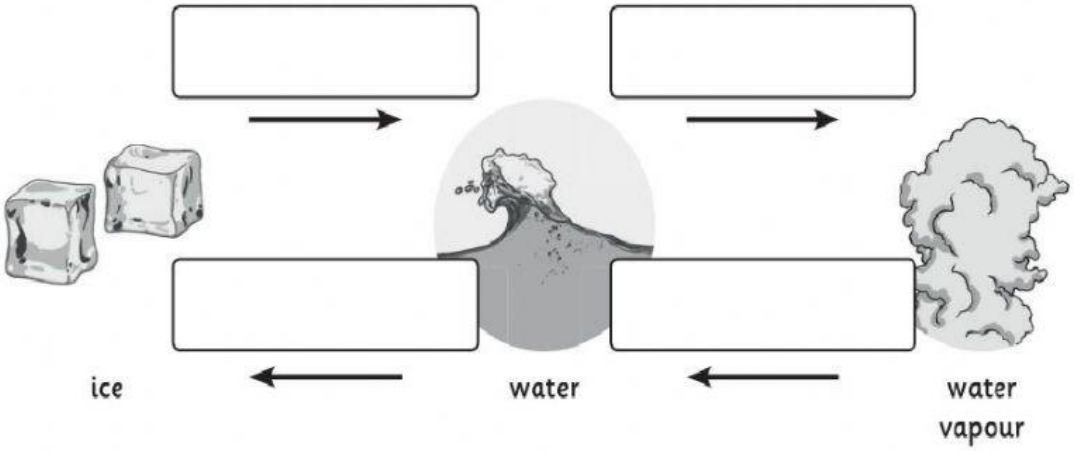
Changing State	Heat or Cool?
From a gas to a liquid	
From a liquid to a gas	
From a solid to a gas	
From a liquid to a solid	

7. What happens to the particles if you heat them up?

8. Match each material to its melting point:

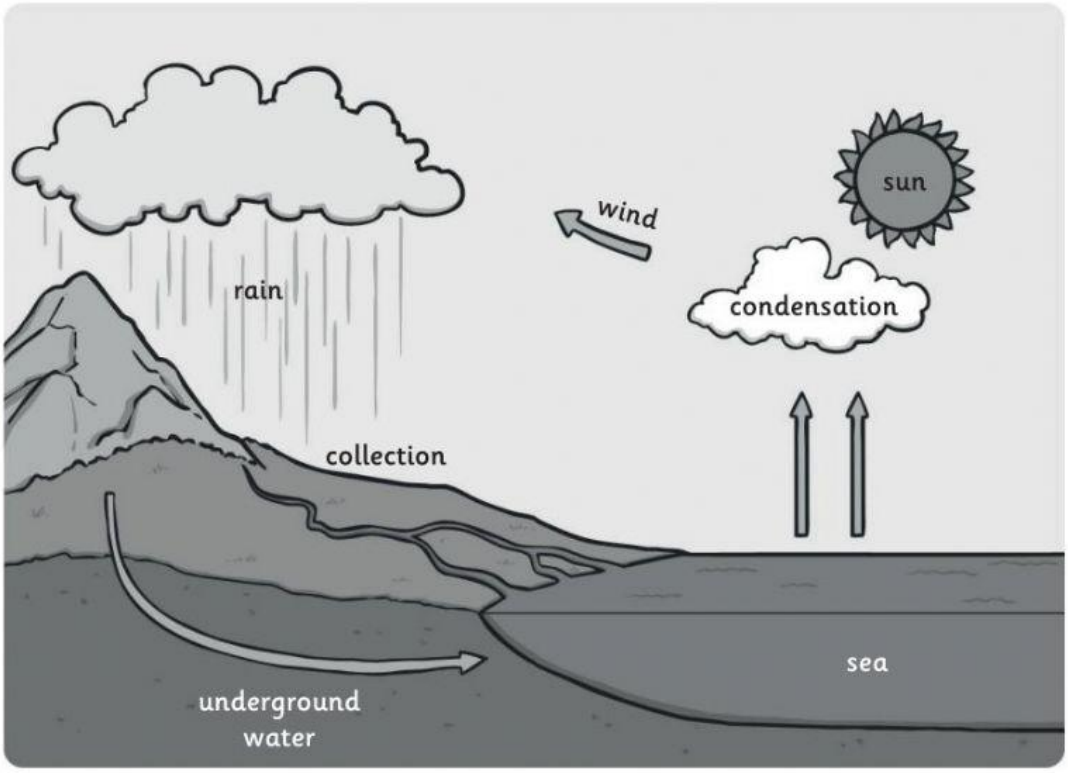
Material		Melting temperature
Ice	•	36°C
Gold	•	-219°C
Chocolate	•	0°C
Oxygen	•	1060°C

9. Label the process happening in each blank box here:



10. What happens to the steam that has turned into water vapour from your kettle at home when it hits the cold kitchen window and turns back to water?

Now look at the diagram and answer the questions:



11. What is the name of the process that happens as the water leaves the sea and goes up into the sky?

12. As well as the underground water, name other place the water naturally comes from to go into the sea:

13. What is the scientific name for rain, snow and other forms of water that fall from clouds?