

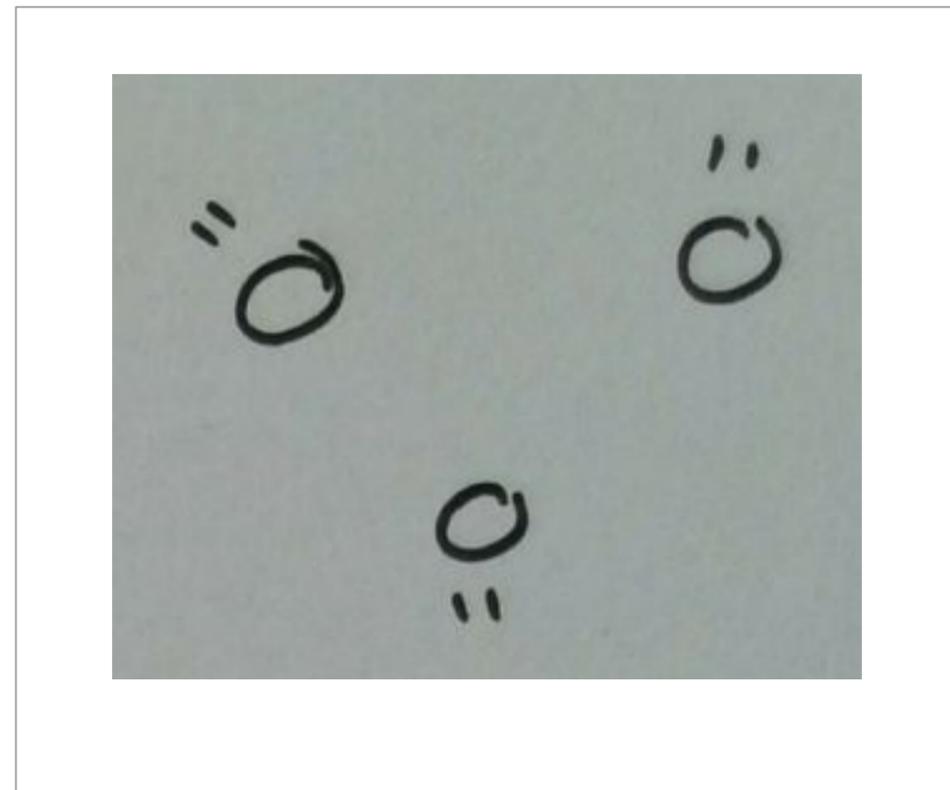
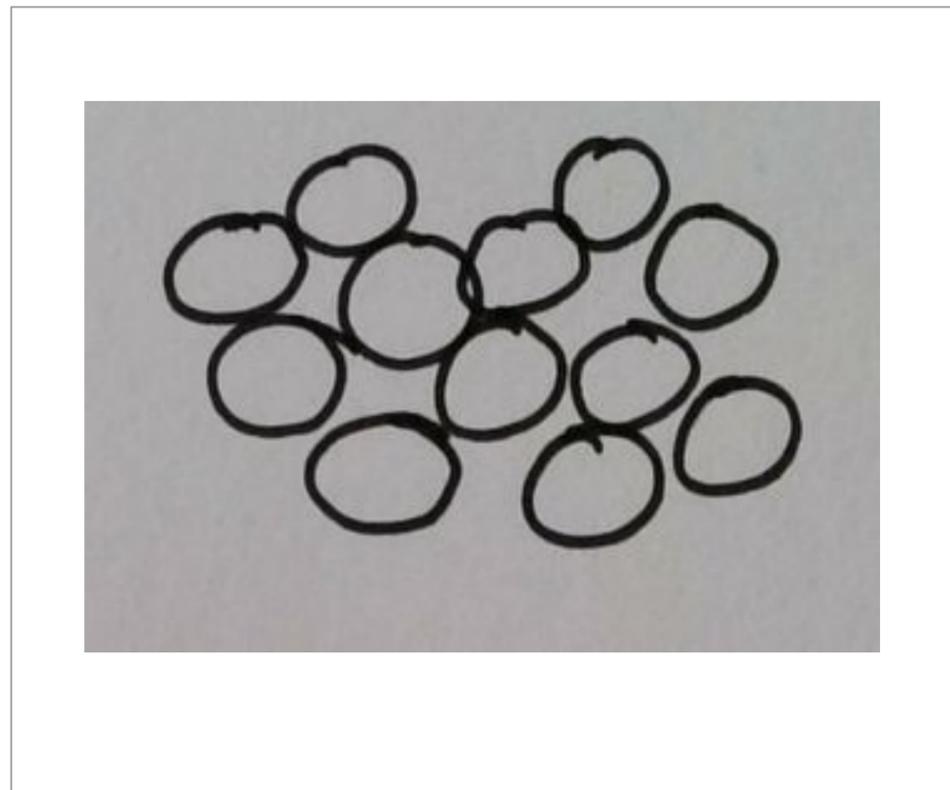
Which substances do not fit into one state of matter?

Science

Miss Couves



What do the particles look like in solids, liquids and gases?



Properties of solids

- Solids cannot be c_____
- Do not f_____
- Have a f_____ S_____



Properties of liquids

- Liquids cannot be c_____
- Can f_____
- Can take the shape of



Properties of gases

- Gases can be c_____
- Can f_____
- Can f_____ the shape of their container



Draw lines to match the description to the correct state of matter.

Solid

Particles are touching and in ordered rows

Liquid

Particles are far apart from each other

Gas

Particles are touching in a random arrangement



Draw lines to match the description to the correct state of matter.

Solid

Particles can slide past each other

Liquid

Particles are moving constantly in all directions

Gas

Particles cannot move but can vibrate



What happens to the particles as they are heated?

_____ temperature - particles have _____ - the
substance _____



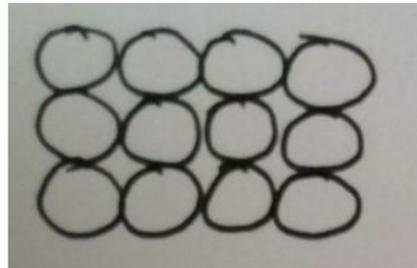
What happens to the particles as they are cooled?

_____ temperature - particles have _____ - the
substance _____

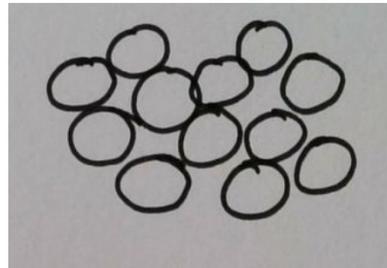


Which state change does each arrow represent?

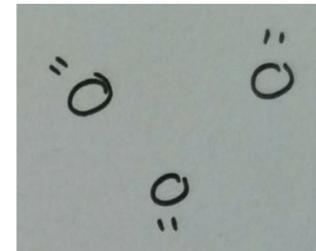
Solid



Liquid



Gas



How do we measure temperature?

Temperature is measured using a scale called **C**_____

0°C is the temperature at which **water** _____

100°C is the temperature at which **water** _____



What is a fixed point?



Is jelly a solid, a liquid or a gas?

Jelly is like a solid because.....

Jelly is like a liquid because.....



Is sand a solid, a liquid or a gas?

Sand is like a solid because.....

Sand is like a liquid because.....



How do you make a non-newtonian fluid

Equipment:

- 1 cup of water
- 2 cups of cornflour
- a bowl
- a spoon

Method:

- 1) Place the cornflour in the bowl
- 2) Add the water (and food colouring if you are using some)
- 3) Stir the flour together very slowly



1. Try: quickly grabbing your non-newtonian fluid

Write: When I tried to grab the non-newtonian fluid quickly, I found that...

2. Try: slowly releasing your hand

Write: When I released my hand, I found that...

3. Try: drag your hand through quickly then slowly

Write: When I dragged my hand quickly/ slowly, I found that...



1. Try: tip the bowl to the side quickly

Write: When I tipped the non-newtonian fluid quickly, I found that...

2. Try: tip the bowl to the side slowly

Write: When I tipped the non-newtonian fluid slowly, I found that...

3. Try: picking it up and squashing it into a ball

Write: When I squashed the non-newtonian fluid into a ball, I found that...

