

What happens when you heat or cool each state of matter?

Worksheet

Science

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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

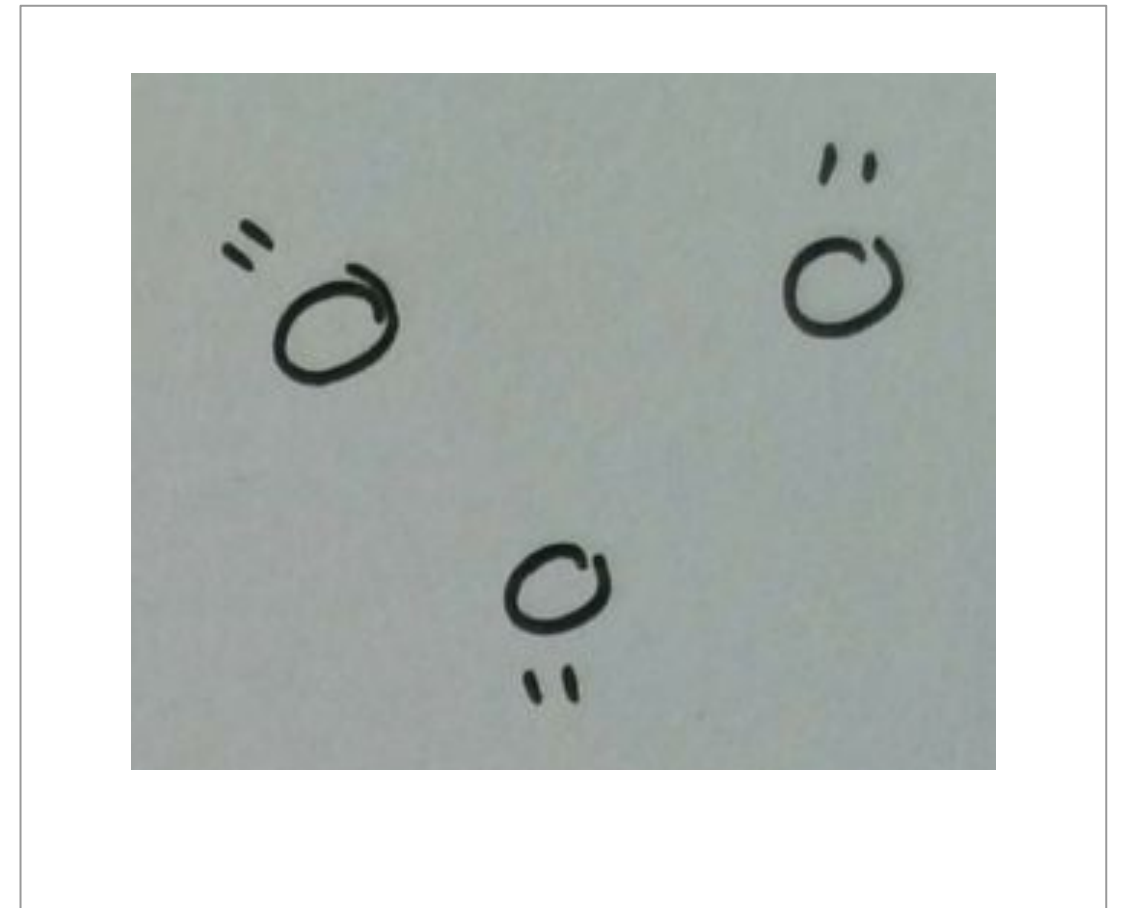
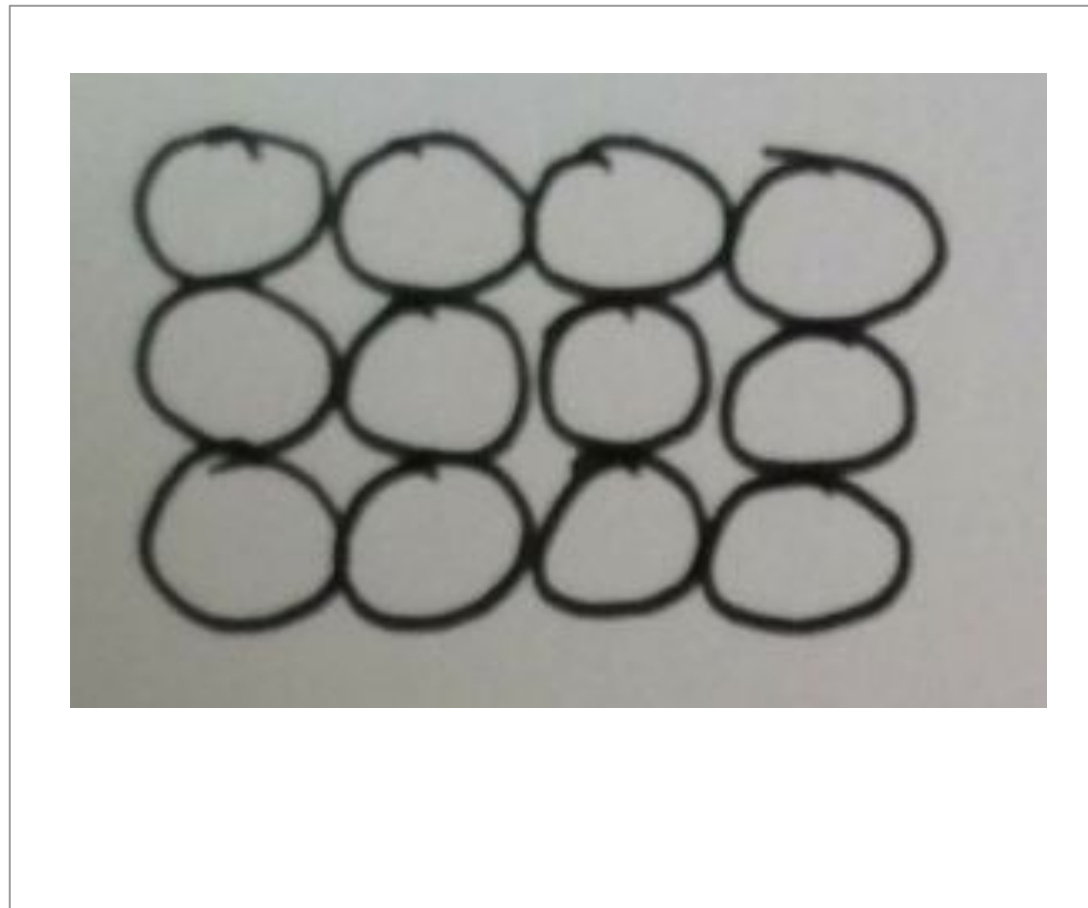


Properties of gases

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



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



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.

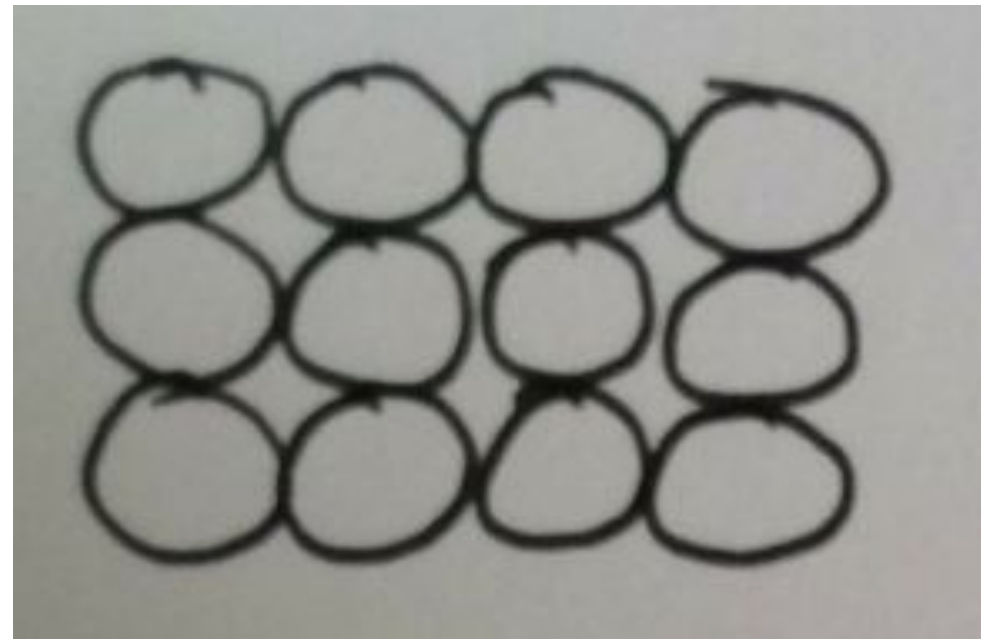
Gas

Particles cannot move but can vibrate.

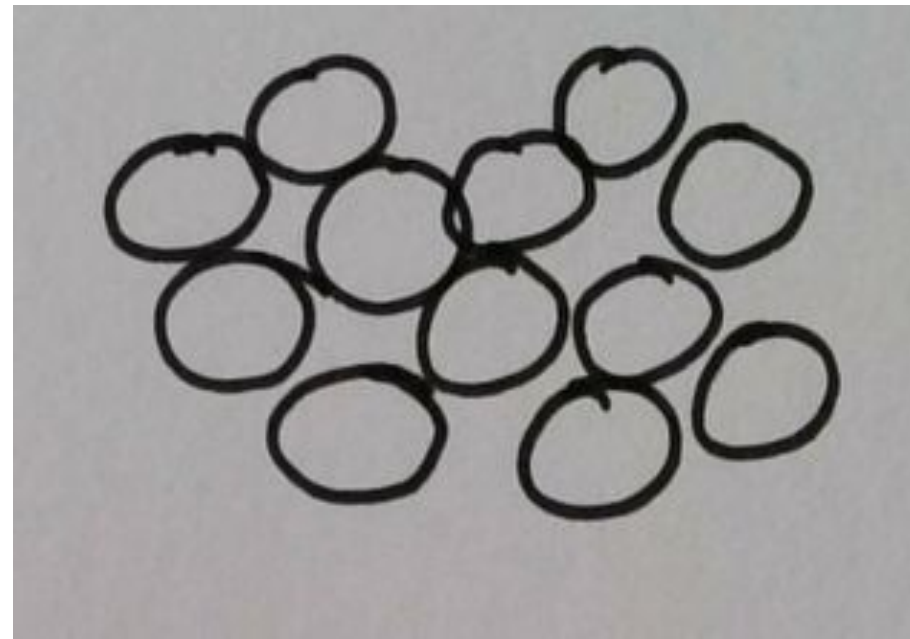


What happens to the particles as they are heated?

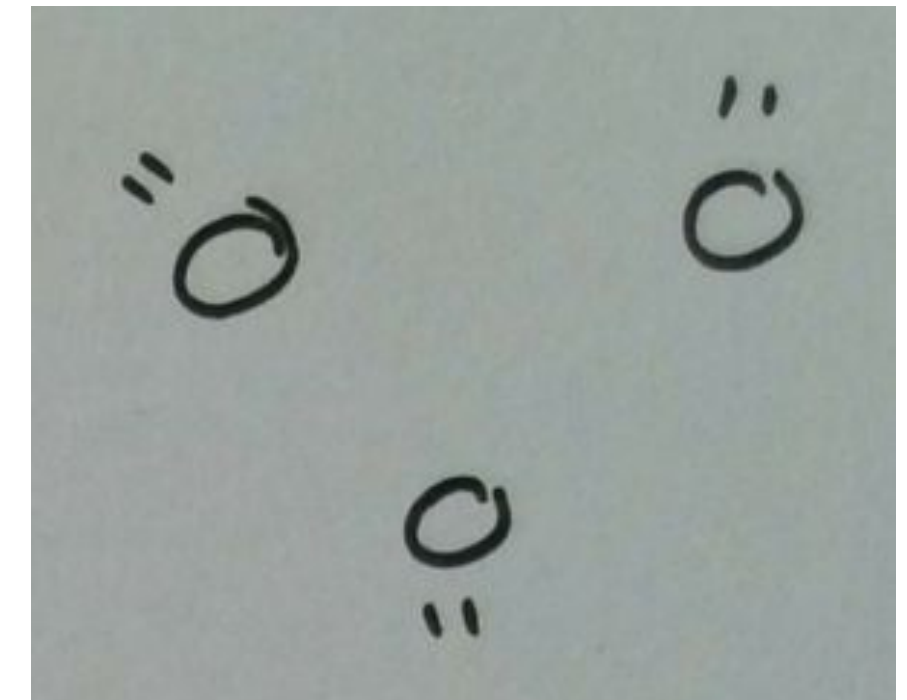
Solid



Liquid



Gas

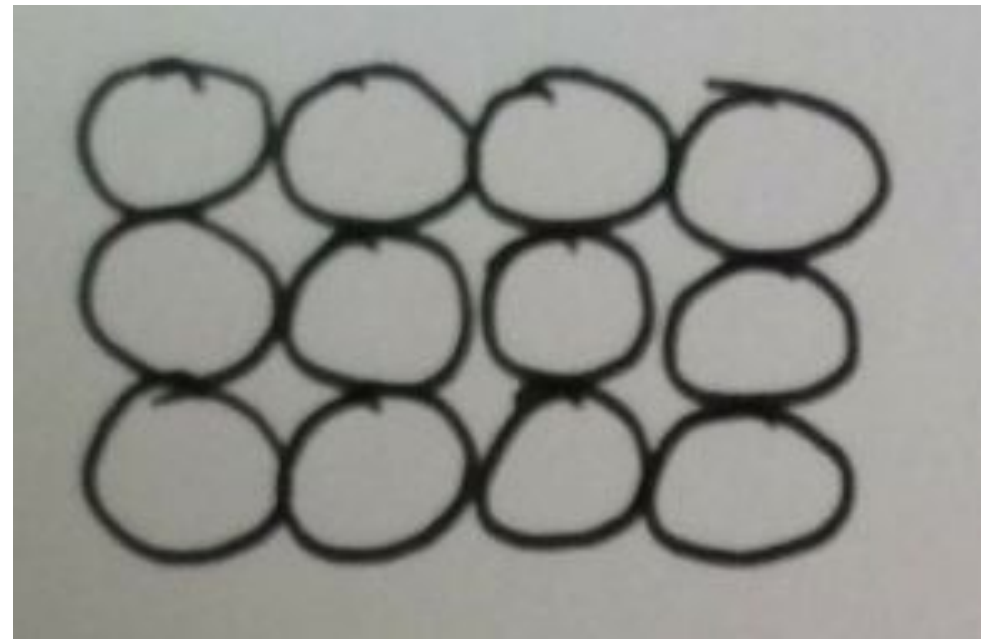


_____ temperature - particles have _____ - the
substance _____

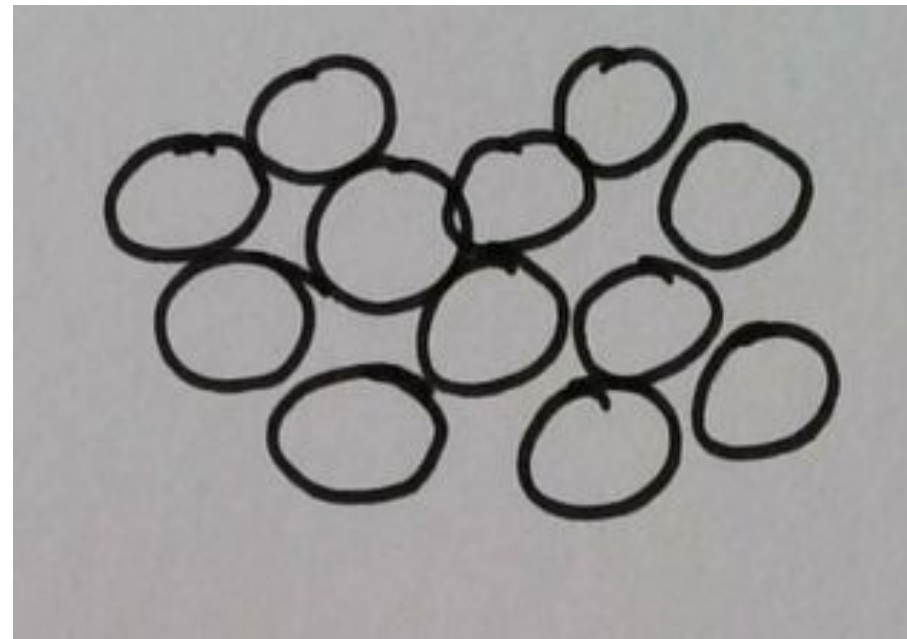


What happens to the particles as they are cooled?

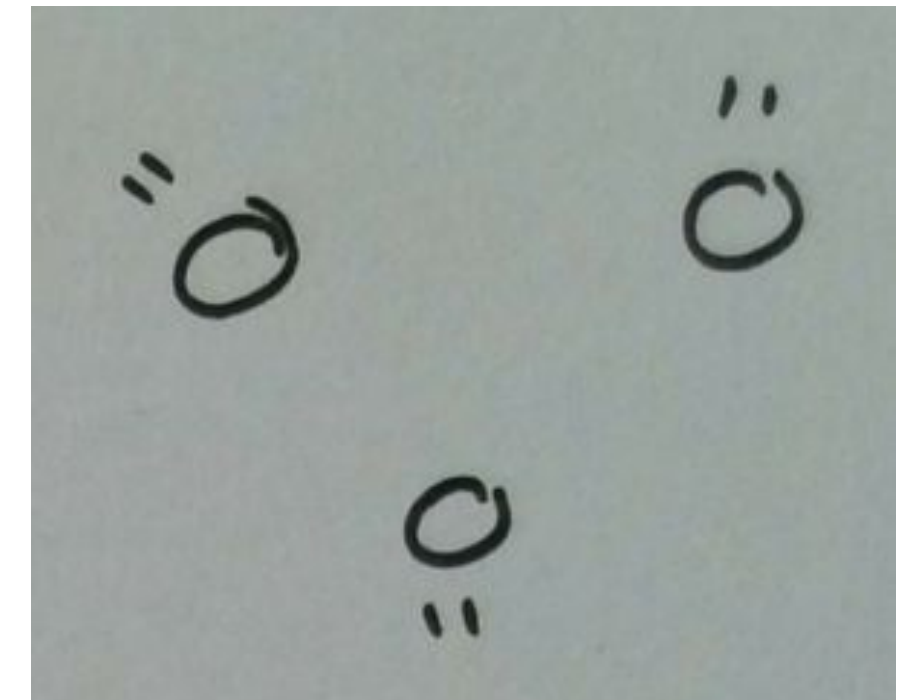
Solid



Liquid



Gas



← _____ temperature - particles have _____ - the
substance _____



How can heating and cooling be useful?

Copy and complete the table.

Putting a jar under the hot tap to help get the lid off.	Heating the lid could be helpful because...
Using liquid in a thermometer to tell temperature.	Heating the liquid in a thermometer when you place it in something hot is helpful because...
Cooling oxygen and hydrogen to put them into tanks.	When storing gases like oxygen and hydrogen, cooling them is helpful because...



Why might it be dangerous to heat a gas when it is trapped in a metal can?

