

Science

This week in science we will be looking at solids, liquids and gasses and what the difference is between them.

Watch the link below first and then make your way through the teaching presentation.

Once you have done this complete the activities below. If you cannot print off the worksheets, simply draw or write your answers on a piece of paper or an exercise book, making it clear which question you are answering. There is a challenge question as well, should you finish both activities.

There is also a help sheet at the end, should you need a bit of assistance with **Activity 2**.

Video Link:

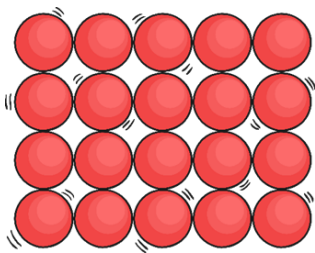
[The behaviour of particles in solids, liquids and gases - KS2 Science - BBC Bitesize](#)

The video link will help you with **Activity 2**.

Science

I S

Solids



L.O. I can sort and describe materials.

07.01.21

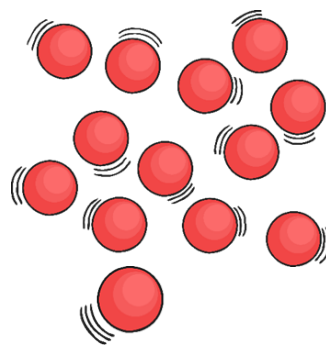
I can sort materials into solids, liquids and gases.

I can describe the properties of solids, liquids and gases.

I can show the difference between the particles in solids, liquids and gases.

* I can use key, scientific vocabulary to explain the difference between solids, liquids and gasses.

Liquids



Gases



Sort the cards from **Activity 1** into the correct categories. Write them down if you cannot cut them out.

Solid

Liquid

Gas

Activity 1



glass



tea



clay



steam



wood



lemonade



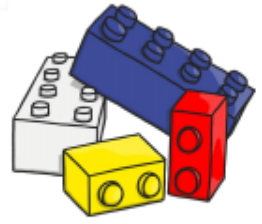
sugar



hot air



ice



plastic



sponge



fabric



honey



ice lolly



metal



sand



cream



juice



rocks



paper



soup



wool



oxygen



rain

Year 4

Activity 2

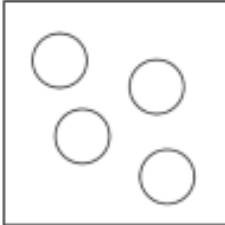
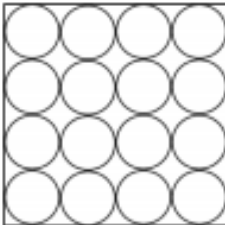
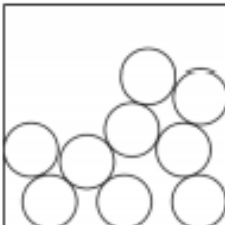
Cut out the cards from the next page and stick them in the correct box below. Again, if you cannot print off the sheets, draw a table like the one below and write/draw your answers. The BBC bitesize video will help you with this activity. The link is on the first page.

State	Particle Arrangement	Particle Properties	Material Properties

Year 4

Activity 2

Cut out the cards and stick them on your 'Solid, Liquid or Gas?' activity sheet to complete the table.

solid	Particles are close together but random. They can move over each other.		Keeps its shape unless a force is applied to it. Remains the same volume.
liquid	Particles are spread out and can move about quickly in all directions.		Does not keep its shape. Can spread out to fill the space it is in.
gas	Particles are closely packed in a regular pattern. They vibrate on the spot.		Takes the shape of the container it is in. Stays the same volume.

Year 3

Activity 2

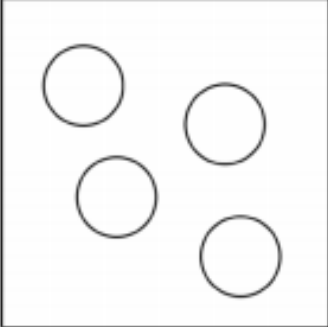
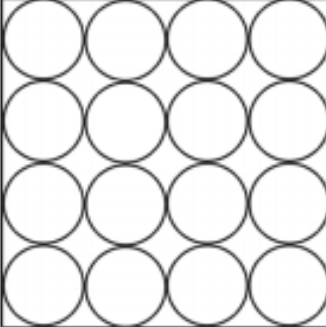
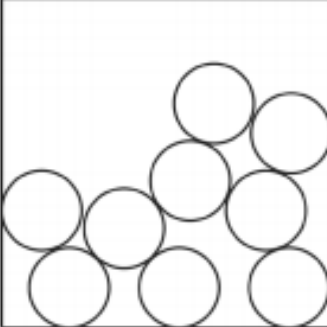
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State	Particle Arrangement	Particle Properties

Year 3

Activity 2

Cut out the cards and stick them on your 'Solid, Liquid or Gas?' activity sheet to complete the table.

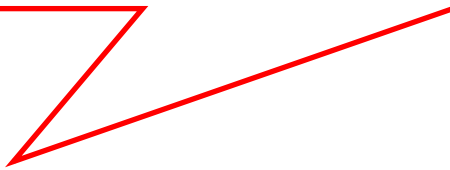
solid	liquid	gas
<p>Particles are close together but random. They can move over each other.</p>	<p>Particles are spread out and can move about quickly in all directions.</p>	<p>Particles are closely packed in a regular pattern. They vibrate on the spot.</p>
		

Challenge

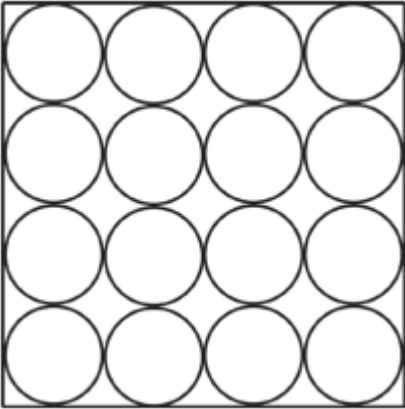
If you manage to finish both activities, try answering this question. Perhaps you could post your answers on the Year 3 and 4 Padlet page!

What is the difference between a solid, a liquid and a gas?

Use key vocabulary: solid, liquid, gas, particle, properties, matter, state.

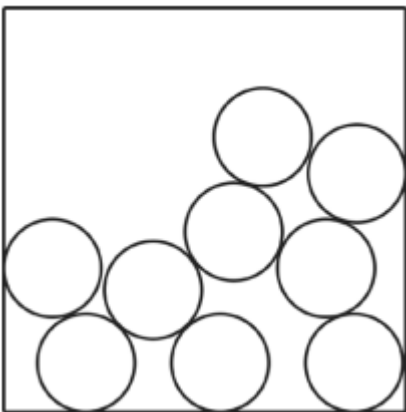


Activity 2 Help Sheet



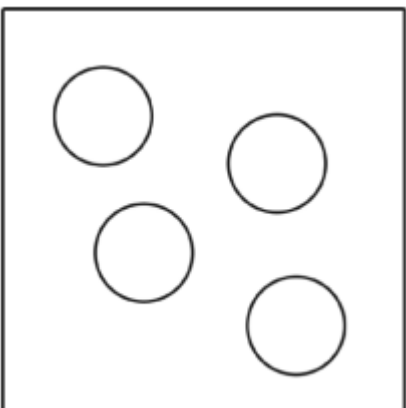
SOLIDS:

In a solid, the particles are close together in ordered rows. They move a little bit on the spot.



LIQUIDS:

In a liquid, the particles are quite close together, but can move around each other easily. They move quite a bit, moving gently past each other.



GASES:

In a gas, the particles can move around very quickly in all directions. There is a lot of space between each particle.