



## HOME LEARNING

**Subject:** Science

**Time:** 50 minutes approx.

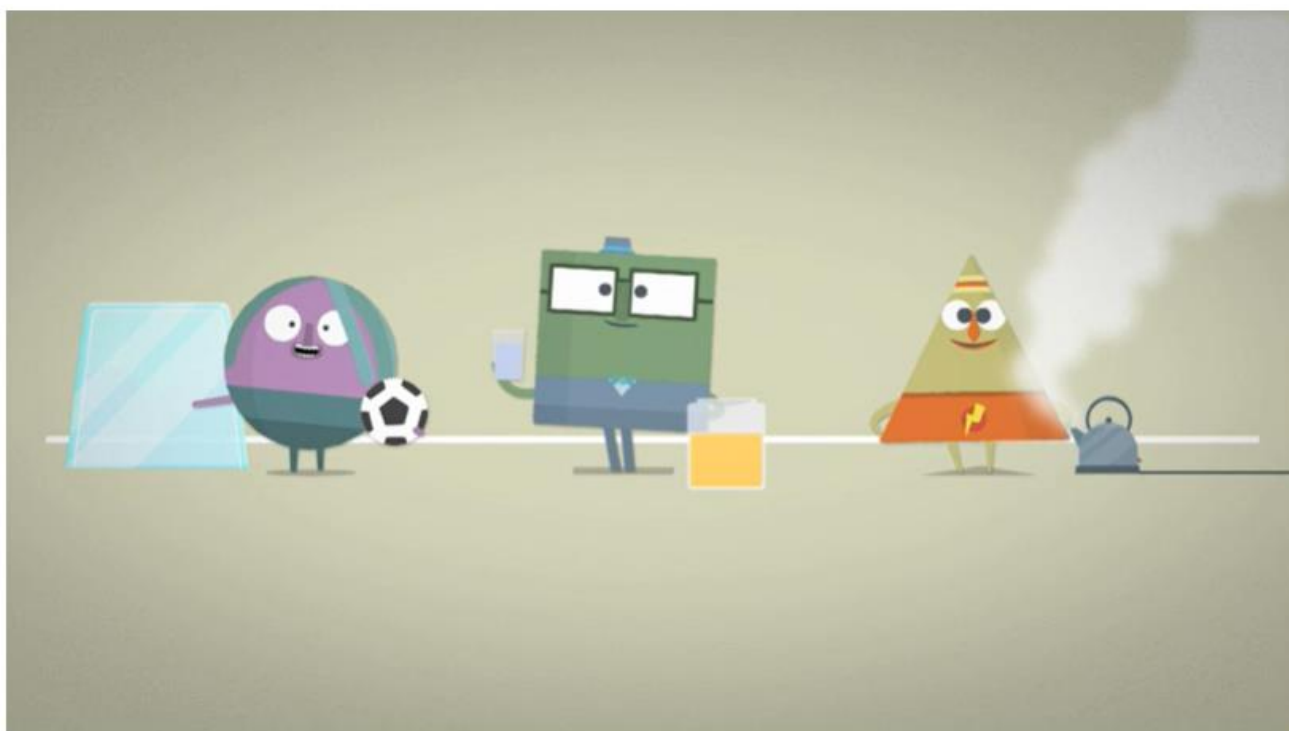
**Learning Objective:** I can identify solids, liquids and gases

### Task 3: (Mr Larrive and Mrs Latchem)

**I can identify how the particles move in solids, liquids and gases**

Watch the video 'What are the states of matter?' that can be found on this link

<https://www.bbc.co.uk/bitesize/topics/zkqg87h/articles/zsgwwxs>



Using the video and the information provided below are you able to sort the states of matter and the particle descriptions

## Solids

The properties of solids include:

- Solids stay in one place and can be held.
- Solids keep their shape. They do not flow like liquids.
- Solids always take up the same amount of space. They do not spread out like gases.
- Solids can be cut or shaped.
- Even though they can be poured, sugar, salt and flour are all solids. Each particle of salt, for example, keeps the **same shape** and volume.



Examples of solids include ice, wood and sand.

## Liquids

The properties of liquids include:

- Liquids **can flow** or be poured easily. They are not easy to hold.
- Liquids change their shape depending on the container they are in.
- Even when liquids change their shape, they always take up the same amount of space. Their volume stays the same.



Examples of liquids include water, honey and milk.

## Gases

The properties of gases include:

- Gases are often invisible.
- Gases do not have a fixed shape. They spread out and **change their shape** and volume to fill up whatever container they are in.
- Gases can be squashed.



Examples of gases include steam, helium and oxygen.

You may cut out and stick the pieces onto the solid, liquid and gas worksheet to complete the table or you may choose to copy the information by hand.

## Solid, Liquid or Gas?

State	Particle Arrangement	Particle Properties

solid

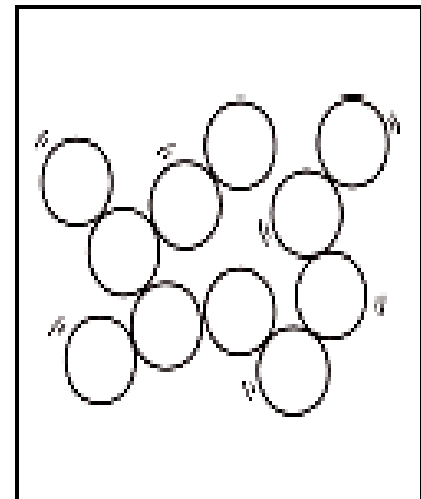
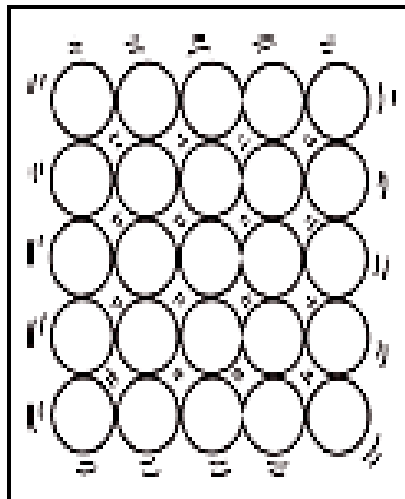
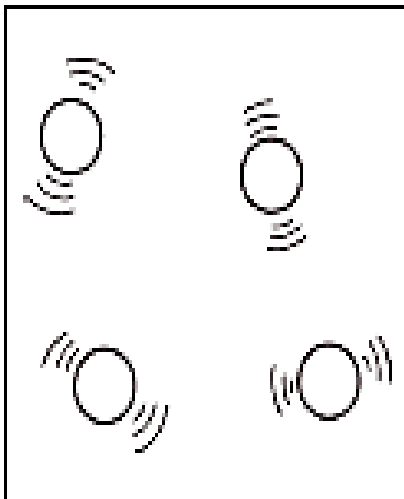
liquid

gas

Particles are close together, but random. They can move over each other.

Particles are spread out and can move about quickly in all directions.

Particles are closely-packed in a regular pattern. They vibrate on the spot.



**Save your work:**

If you are using a computer, open a blank document to do your work (you can use Word or Publisher).

Don't forget to SAVE it with your name, the lesson you are doing and the date.

For example: T.Smith Maths 8 April

If you would like us to see or mark your work please email it or send a photo of your completed work to:

[smendez.305@glebe.bromley.sch.uk](mailto:smendez.305@glebe.bromley.sch.uk)

Thank you