

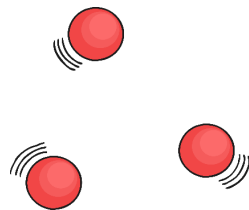
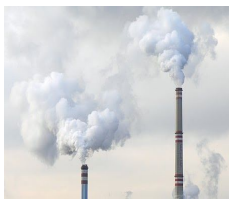
Science home learning, week 2: Solids, Liquids and Gases

Investigating gases

1. Warm up- Use the 'particle information cards' to act out being a particle and get moving.

You could: make a little video of yourself being a particle for others to try and guess which state of matter you are acting out or draw a picture to show the particles in a solid, liquid and gas.

TASK: Watch the clip [Gases in daily life \(clip compilation\) - KS2 Science](#) then do the investigation here



Evidence of gases

Fizzy Drinks Investigation:

LOOK CLOSELY! USE ALL YOUR SENSES

1. Look at a bottle of fizzy if you have one
2. Watch the powerpoint in the folder to help you
3. Draw the bottle of fizzy drink. Record which states of matter you see?



Follow the instructions and observe what happens:

- With the lid on- shake the bottle
- Let the liquid settle.
- **How do we know there is gas in the bottle?**
- Gently open the bottle top a little (**NOT** all the way)
- What do you notice? LISTEN, LOOK



**Record your observation- Is there evidence of gas?
Draw a picture and label what you see, hear?**

- Open the bottle, sniff the top of the bottle.



- What do you notice? Record what you noticed in a few sentences.

There is gas in the bottle because I saw..... I heard..... I felt.....

You could find out:

Does gas weigh anything?



What is your prediction: I think

Test:

If you have weighing scales ask an adult if you can weigh a cup of fizzy drink.

It weighs:

Now stir the fizzy drink 20 times- what do you notice happening? Is the gas escaping? Is the fizzy drink flat?

Weigh it again- It weighs:

What did you find out?

Does gas weigh anything? Write up what you have found out.



Extension: Curious scientist challenge:

Who discovered carbon dioxide?

Produce an 'interesting facts' page about the scientist Joseph Priestly.

Here is a helpful clip with the science investigator [Joseph Priestley - the discovery of gases \(signed\) - KS2 Science](#)

What did he mean when he described fizzy water being a '**peculiar satisfaction**'?