

Gas Pressure

Chemistry - Key Stage 3

Particles - Lesson 5

Miss Mason



Recap

1. Identify 2 properties of a gas.

Gases can be c_____ and they have a low d_____.

2. On a heating or cooling curve, what does a flat section represent?

A flat section on a heating or cooling curve represents a c_____ of s_____ and a constant t_____.

3. What will happen to the rate of diffusion if surface area is decreased?

4. If a substance melts at 3°C, what state will it be in at room temperature?

(Remember, room temperature is around 22°C!)

5. Compare the movement of particles in a solid to the movement of particles in a liquid.

In a solid, the particles are only able to v_____ around one fixed p_____. However, in a liquid, the particles are able to....



Copy and complete

Particles in gases move...

They frequently c_____ with the walls of their container.

The more often the particles c_____ with the walls of their container, the greater the p_____.

Two objects that rely on gas pressure are...



Describe what happens to the pressure of a gas in the following situations:

- The gas is heated
- The volume of the container the gas is in is reduced
- There is an increase in altitude.



Independent task

Use these sentence starters to help you describe what was happening in terms of particles in the collapsing can experiment

When the can was heated, this caused an increase in...

The liquid in the can was able to...

The pressure in the can therefore...

When the can was plunged into the icy water, the gas in the can suddenly...

This caused the pressure to...

The pressure outside the can was...

This is what caused...

