

# Fast 5

What is the difference between permeable and impermeable rock?

# Fast 5

What is the difference between permeable and impermeable rock?

Permeable rocks allow liquids and gases to pass through them and impermeable rocks do not.

**Can I explain the process of  
evaporation and  
condensation?**

## **Evaporation and condensation**

**Liquids and gases can be changed from one state to another by heating or cooling.**

Heat can turn a liquid into a gas and cooling can cause a gas to turn to a liquid.

### **Heating**

If water (liquid) is heated, it changes to water vapour (gas). This change is called evaporation.

### **Cooling**

If water vapour (gas) is cooled down, it changes into water (liquid). This change is called condensation.



condensation



evaporation



Watch the video here and  
label the diagram

[https://www.bbc.co.uk/bitesize/topics/zkqg87h/articles/zyd\\_xmnb](https://www.bbc.co.uk/bitesize/topics/zkqg87h/articles/zyd_xmnb)

## **The process is relatively simple:**

When liquid particles are heated up, they gather more energy.

Due to having more energy, the particles are able to move more.

Because the particles are moving faster, they are able to disperse and separate.

This process converts liquid into a gas and is called evaporation.

When this process is reversed, the particles will eventually cool and have less energy

When the particles have less energy, they move less

If the particles are moving less, they will come back together and become a liquid again

This process can work both ways more than once.



# Examples of evaporation include:

- Warm-air hand dryers
- Blowing on ink to dry it
- Washing drying well on a sunny breezy day
- Hair dryers