

Online science activities for Changing State topic.

Lesson 4 – changing states of matter



Have you noticed that when you use a kettle to heat water, it turns into a gas (steam)?

This shows the process of evaporation. You can also see this in a shower room when it gets filled with hot steam and you can't see across the room as well as before.

If the steam to hits a cold surface on an angle, it will form condensation that drips down as water droplets that you can collect (or at least see!)



Try loading this video clip, <https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/zydxmnb>

Complete the quiz and label the online diagram.

Activity 1: Can you now write out what evaporation and condensation means and draw, or cut and paste an internet picture for each word? The video clip that you have just watched will help you with this.

Activity 2: We are now going to look at the water cycle. ALL WATER on earth is subject to this cycle since the dawn of time.

The Earth is a watery place. About 71 percent of the Earth's surface is covered in water and the oceans hold about 96.5 percent of all Earth's water. Water also exists in the air as water vapour, in rivers and lakes, in icecaps and glaciers, in the ground as soil moisture and underground in layers of rock, and even in you and your dog!

This water is repeatedly recycled and we have the same amount of water on earth now as we did when the Earth was formed, how amazing is that?

So how does this cycle happen?

Watch these clips:

- [clip 1](https://www.youtube.com/watch?app=desktop&v=zBnKgwnn7i4&feature=youtu.be) <https://www.youtube.com/watch?app=desktop&v=zBnKgwnn7i4&feature=youtu.be>
- [clip 2](https://www.youtube.com/watch?app=desktop&v=y5gFI3pMvol) <https://www.youtube.com/watch?app=desktop&v=y5gFI3pMvol>
- clip 3 <https://www.bbc.co.uk/bitesize/clips/zh4rkqt>

Use the second one to show you how to draw a picture of the water cycle.

You can then choose to:

Write about the water cycle in your own words.

Answer the questions on the water cycle.

OR fill in the missing words sheet.

I hope you like the videos! There is also lots of songs about the water cycle that you can listen to on Youtube, some are better than others!

