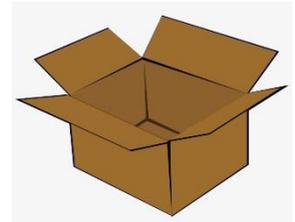




Science Activity
Water cycle in a bag
Time to prepare: 5 minutes



□ Please stay safe and ask a grown up to supervise you

Resources/ things you need

- Plastic bag with zip lock
- Pens
- tape

What to do

1. Take a plastic bag that has a zip lock.
2. Use a pen that can write on the plastic bag.
3. Draw out the water cycle diagram. Use the pictures below to help you draw it.
4. Draw some water and then some trees on one side. Draw some clouds in the sky and draw a sun.
5. Make sure you include the 3 processes of the water cycle and write them in the correct place on your picture on the bag. The 3 processes to include are evaporation, condensation and precipitation.
6. Draw some arrows on your diagram going the correct way. Use the pictures below to help you.
7. **A grown up will need to do this part for you - heat up some water so that there is steam but not boiling. Carefully, the grown up needs to pour the hot water into the bag. Seal the bag with zip-lock and tape.**
8. **The grown up** will need to find a safe place and hang up the water cycle in a bag, upright, near a window, where the sun will be. Observe what happens inside the bag. After some time can you see anything happening on the inside of the bag?

Background and the link to learning

The water on Earth is **constantly moving**. It is recycled over and over again. This recycling process is called the water cycle.

1. Water evaporates into the air

The sun **heats up** water on land, in rivers, lakes and seas and turns it into water vapour. The water vapour rises into the air.

2. Water vapour condenses into clouds



Water vapour in the air **cools** down and changes back into tiny drops of liquid water, forming clouds.

3. Water falls as precipitation

The clouds get **heavy** and water falls back to the ground in the form of rain or snow.

4. Water returns to the sea

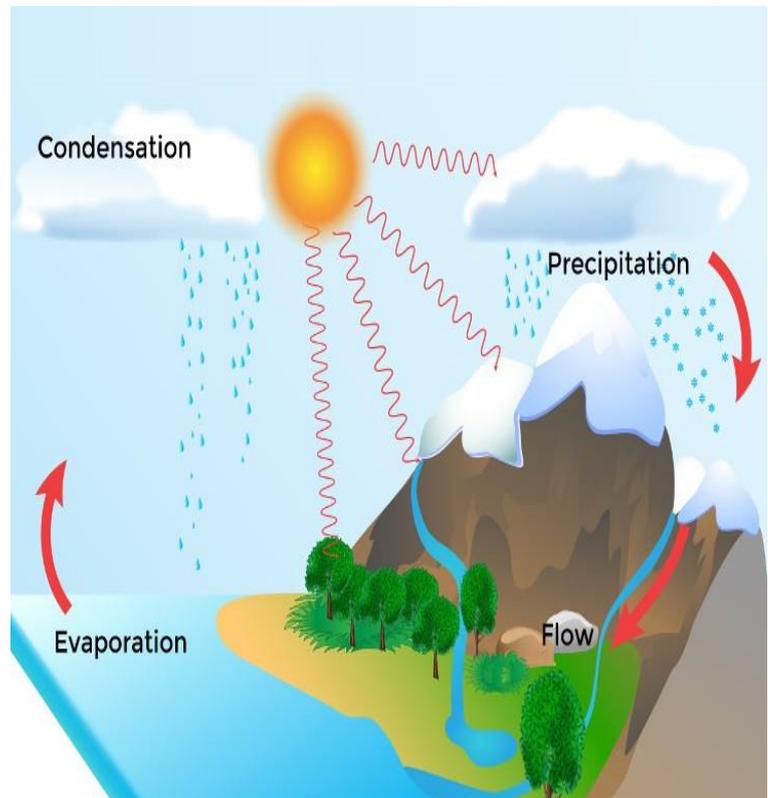
Rain water runs over the land and collects in lakes or rivers, which take it **back to the sea**. The cycle starts all over again.

There are 3 processes in the water cycle

- **Evaporation**- If water (liquid) is heated, it changes to water vapour (gas). This change is called evaporation.
- **Condensation**- If water vapour (gas) is cooled down, it changes into water (liquid). This change is called condensation.
- **Precipitation**- is the release of water from the sky (rain).

**** What should you see in the bag?**

As the water heats up it evaporates. The water vapour condenses back to water at the top of the bag. A white patch can be seen at the top of the bag resembling clouds in the upper part of the atmosphere. You have made a water cycle! 😊



[Link to other similar activities](#) - Please see make a bird feeder.

