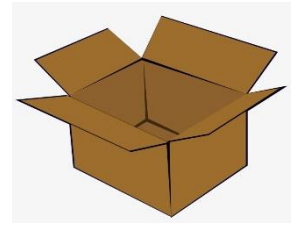




**Science Activity**  
**Water cycle in a bag**  
**Time to prepare: 5 minutes**



□ **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?**

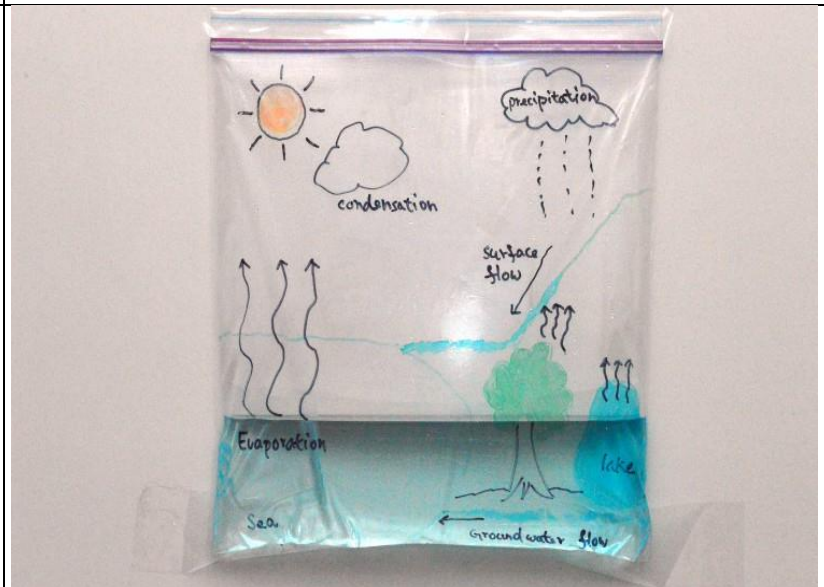
**Background and the link to learning**

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

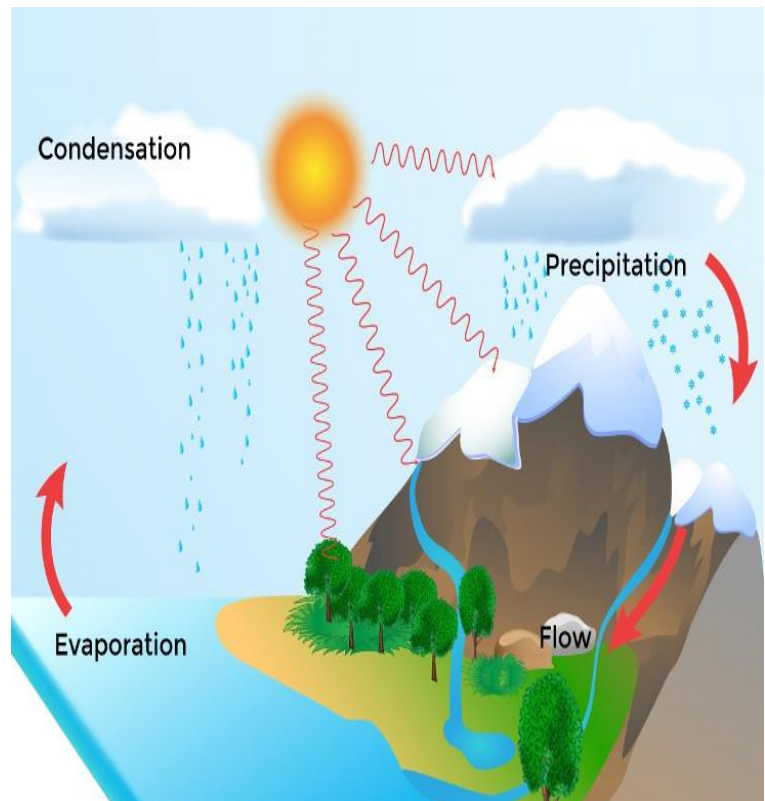
Rain water runs over the land and collects in lakes or rivers, which take it **back to the sea**. The cycle starts all over again.

### 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.

