

# Activity...

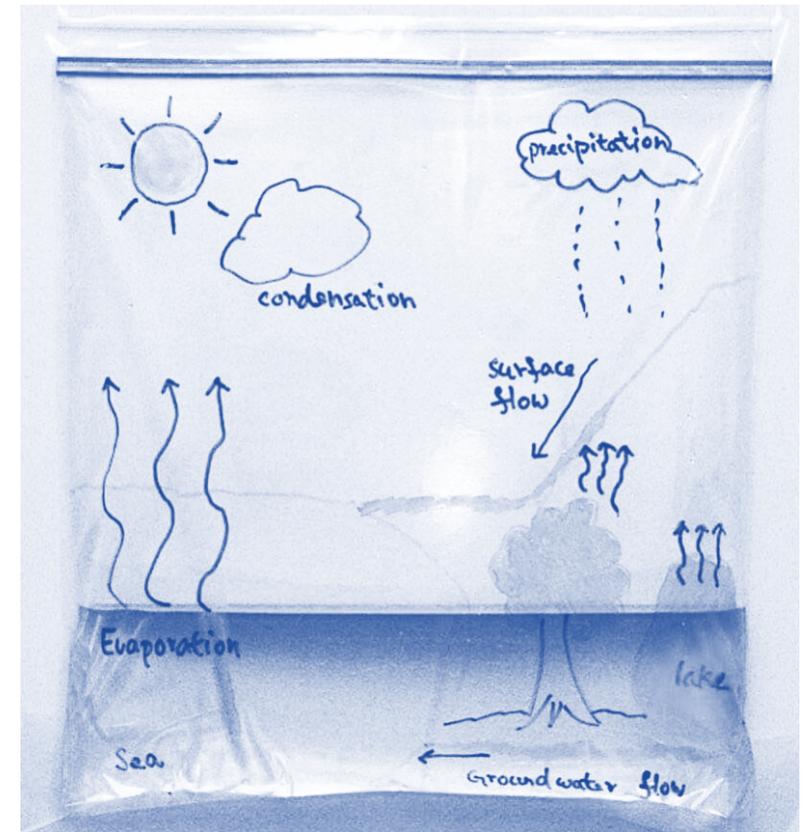
## 'WATER CYCLE IN A BAG' experiment

### You will need:

- A clear sealable plastic bag - a clear plastic bottle with a lid on will also work
- A permanent marker-pen
- Water
- Tape (if using a bag)
- Blue food colouring (optional)
- A sunny window

### Instructions:

1. Mark a line on your bag or bottle a few centimetres from the bottom. This is where you will fill your water up to.
2. If you like you can also decorate your bag or bottle with a sun and some clouds.
3. Fill your bag or bottle up to the line with water, making sure not to get the sides wet.
4. Add a few drops of blue food colouring, if using.
5. Seal your bag and tape it securely to a sunny window. If using a bottle put the top on and place in a sunny window.
6. Leave for a few hours and watch what happens!



### What is happening?

The first thing you will notice is that after a while in the sun, water droplets will start to form on the side of the bag. This is because the water has been heated by the sun and turned into water vapour (evaporation). As the water vapour hits the sides of the bag it cools and becomes solid water again, forming water droplets on the side of the bag (condensation). As these droplets get bigger and heavier they begin to fall back down the bag (precipitation). The water then gathers at the bottom of the bag again (collection). You have just created your own water cycle! This cycle will continue for as long as the bag is left in the window.