



# RANDOM ACTS OF SCIENCENESS

## Lesson: Water Cycle in a Bag

**CURRICULUM REFERENCE: Biodiversity**

### LESSON OBJECTIVE

Observe the full water cycle in your very own living room and see how water goes through the different steps of its course within the environment.

### THE SCIENCE BEHIND

The water cycle has been happening for millions of years. The sun's rays warm up water, causing it to evaporate. The water vapour rises into the atmosphere where it eventually cools. This cooling condenses the vapour and turns it back into a liquid. This liquid returns to the earth as rain, snow, or hail and the cycle begins again.

**VIDEO:** <https://youtu.be/iwCl4dxUrR4>



### FOLLOW-UP QUESTIONS

1. What are positive and negative aspects of water being used as resources?
2. What does water help other than humans?
3. Will we ever run out of water? Why or why not?

### LEARNING OUTCOMES

- Describe ways in which biodiversity within species is important for maintaining the resilience of those species.



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#### MATERIALS (PER PERSON)

- Large ziplock bag
- Painter's tape
- Food dye
- Sharpie
- Water

#### INSTRUCTIONS

1. Draw some waves at the bottom of the bag and clouds near the top.
2. Fill your bag with  $\frac{1}{4}$  cup of water.
3. Add a few drops of blue food colouring.
4. Find a sunny window and tape it where it will get a lot of sun. TIP: In warm weather, your car window would be a great spot, too.

