



EVAPORATION EXPLORATION

*Rainy days often make puddles. When it stops raining, have you noticed puddles slowly disappear? Where do they go and how? The process is called **evaporation** and it happens when the sun comes out or if the weather is very warm. This is part of the Earth's water cycle.*

This week's activity: Water Evaporation

Water Evaporation

Suggested Materials:

- Bowl, glass, or any clear container
- Pencils, crayons, markers, coloured tape
- Paper
- A sunny day

Directions:

1. Please read the instructions for this activity and ask for permission from a grownup at home, especially when you mark the bowl, glass or container.
2. Fill your container with water and mark a line to indicate the water level (Photo 1)
3. Take your container outside and place it on a flat surface, such as a small table, patio, or grass. Make sure the sun is shining on your container.
4. Write on paper the time you start the experiment. We started our experiment at 9:30am (Photo 1). You can also write on your paper the temperature outside.
5. Decide how often you want to check the water level; hourly or two hours apart. You can choose to conduct your experiment for a few hours or all day.
6. Keep track of the water levels by marking them on the container and paper (Photo 2)

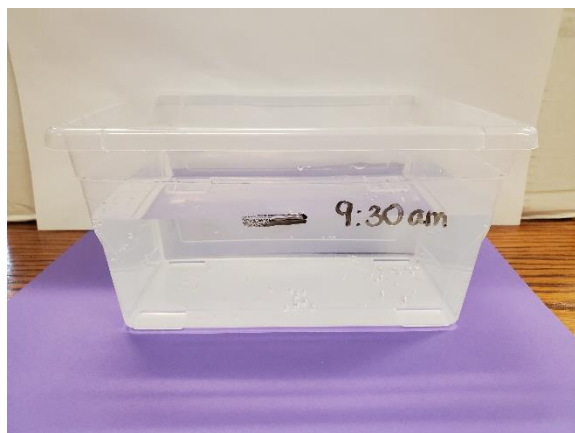


Photo 1

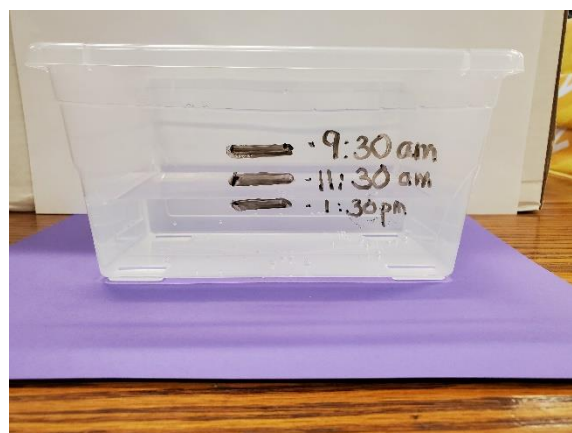


Photo 2

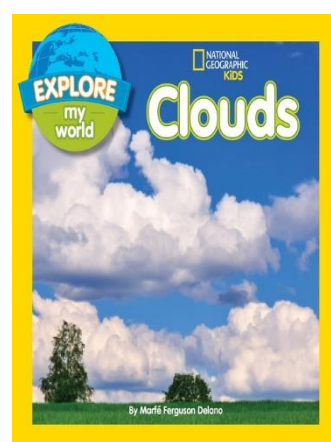
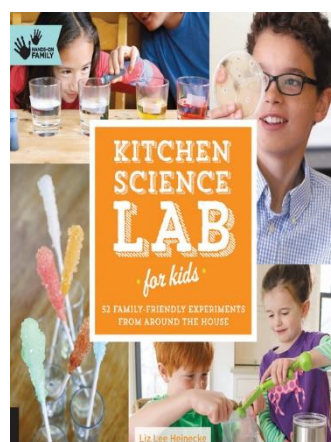
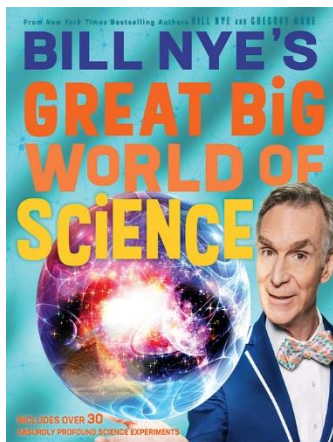
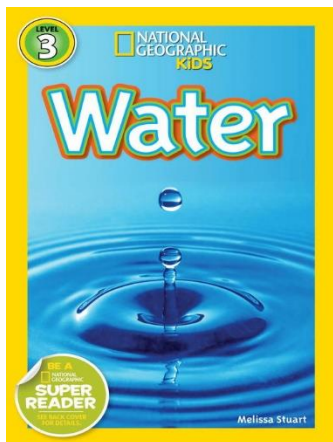
Observations

How does the water evaporate? As the sun shines on the water, the water becomes warmer. The water evaporates when it turns into steam or vapour. The vapour rises into the air, where it is cooler, and then it turns into liquid again, forming clouds.

If you tried this experiment in the Spring, when the temperature is around 20 Celsius, and then tried the experiment in the Summer, when it is very hot, what would happen? Do you think water evaporates faster or slower in hotter weather? You can also try the experiment again but this time, on a cloudy day. Did the water evaporate as quickly or was it much slower? Why?

Links to eResources:

Check out our [eBooks](#) on these topics:



[Water](#) | [Experiments](#) | [Science](#)

On Hoopla Kids, check out interesting books about the **water cycle**, such as *Step-By-Step Experiments with The Water Cycle* by Shirley Duke and *What Is The Water Cycle?* by Louise Spilsbury.

In the episode *Water: Finding Out Stuff* of the series *Apartment 11* on KanopyKids, Harrison learns about how water is formed and the conservation of it.

You can get a library card [at hpl.ca/online-registration](http://hpl.ca/online-registration).

If you would like to share one or all your creations, please take a picture and post it to social media using the hashtag, #HPLmakesomething.



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