

*The water cycle and the life cycle  
are one*

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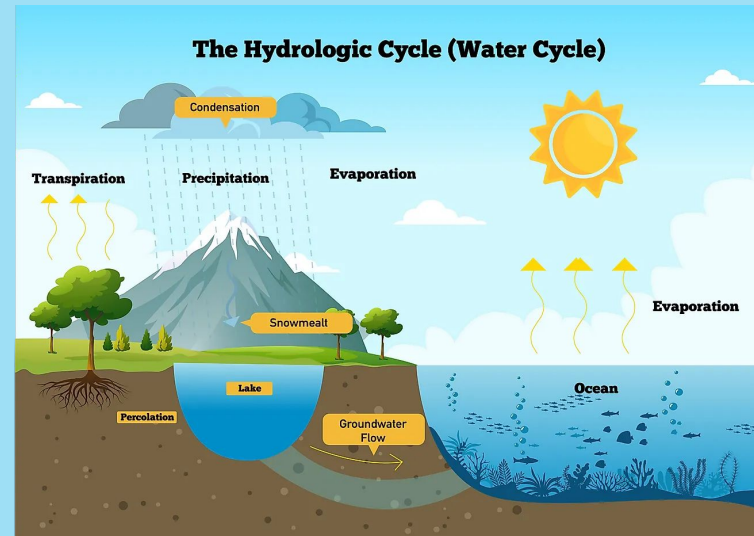
# Water for life.....

What is water cycle for life?

- ▶ Water is essential to life on Earth. In its three phases (solid, liquid, and gas), water ties together the major parts of the Earth's climate system – air, clouds, the ocean, lakes, vegetation, snowpack, and glaciers. The water cycle shows the continuous movement of water within the Earth and atmosphere.

Why is water cycle important to life?

- ▶ It is important because it is how water reaches plants, animals and us! Besides providing people, animals and plants with water, it also moves things like nutrients, pathogens and sediment in and out of aquatic ecosystems.



# Stop plastic pollution....

What is plastic pollution?

- ▶ Plastic pollution is the accumulation of plastic objects and particles (e.g. plastic bottles, bags and the Earth's environment that adversely affects humans, wildlife and their habitat.
- ▶ Over 98% of single use plastic comes from fossil fuels [2] Only 9% of plastic ever produced globally has been recycled [3] Scientists estimate there are about 171 trillion pieces of plastic in the ocean [4] An estimated 300,000 whales, dolphins and porpoises die every year from discarded plastic fishing gear [5]
- ▶ The toxic chemical additives and pollutants found in plastics threaten human health on a global scale. Scientifically-proven health effects include causing cancer or changing hormone activity which can lead to reproductive, growth, and cognitive impairment.







As shown in the pictures, while people dump plastic, garbage to the water resources, animals think that plastic are food they can eat.

Plastic pollution around the world has been found to kill our ocean's coral reefs, which are an essential part of our ocean's ecosystems and home to thousands of species.

Plastics carry bacteria, and they block light and oxygen from getting into the coral.



▶ As mentioned we can use the 3R's to reduce this plastic pollution,

Reuse, Recycle, Reduce

▶ REUSE – to use again especially in a different way or after reclaiming or reprocessing.

▶ RECYCLE – the process of collecting and processing materials that would otherwise be thrown away as trash and turning them into new products.

▶ REDUCE – choosing to use things with care to reduce the amount of waste generated.

▶ By reducing, reusing, and recycling, we:

▶ decrease air and water pollution from waste disposal;

▶ conserve materials for continuous reuse in making new products;

▶ reduce demand for mining and extraction of virgin materials; and.

▶ reduce the amount of energy used to make new products.



# Water for all.....

What is water pollution?

- ▶ Water pollution (or aquatic pollution) is the contamination of water bodies, with a negative impact on their uses. It is usually a result of human activities.
- ▶ Water bodies include lakes, rivers, oceans, aquifers, reservoirs and groundwater.
- ▶ Water pollution results when contaminants mix with these water bodies.





- ▶ Pollution can cause water to become toxic to humans, which can lead to infections and health problems. Water is an essential resource for all life on Earth. If a water source becomes contaminated due to pollution, it can lead to health issues in humans, such as cancer or cardiovascular conditions.



- ▶ Using water-saving techniques can save you money and diverts less water from our rivers, bays, and estuaries, which helps keep the environment healthy. It can also reduce water and wastewater treatment costs and the amount of energy used to treat, pump, and heat water.





# THANK YOU!

Save water today or tomorrow you'll pay.

# References

- ▶ National Oceanic and Atmospheric Administration (2019). *Water Cycle* | *National Oceanic and Atmospheric Administration*. [online] [www.noaa.gov](http://www.noaa.gov). Available at: <https://www.noaa.gov/education/resource-collections/freshwater/water-cycle>.
- ▶ Daggar, J. (2023). What are the 3Rs (for the environment)? *Reduce, reuse, recycle*. [online] GWP Group. Available at: <https://www.gwp.co.uk/guides/what-are-the-3rs/>.