States of Matter

Learning Objective:

To understand the process of evaporation.

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If we left this open bottle of perfume at the front of the classroom, eventually you would be able to smell it, even if you were at the back of the room.

Why is this?

We smell things when gases enter our noses. You are able to smell the perfume at the back of the classroom because some of the liquid perfume evaporated and turned into a gas which then travelled around the classroom. Gases can travel much more easily than solids or liquids. This is why you are able to smell it.

What happens to puddles outside when it stops raining or to wet clothes that are hung outside?

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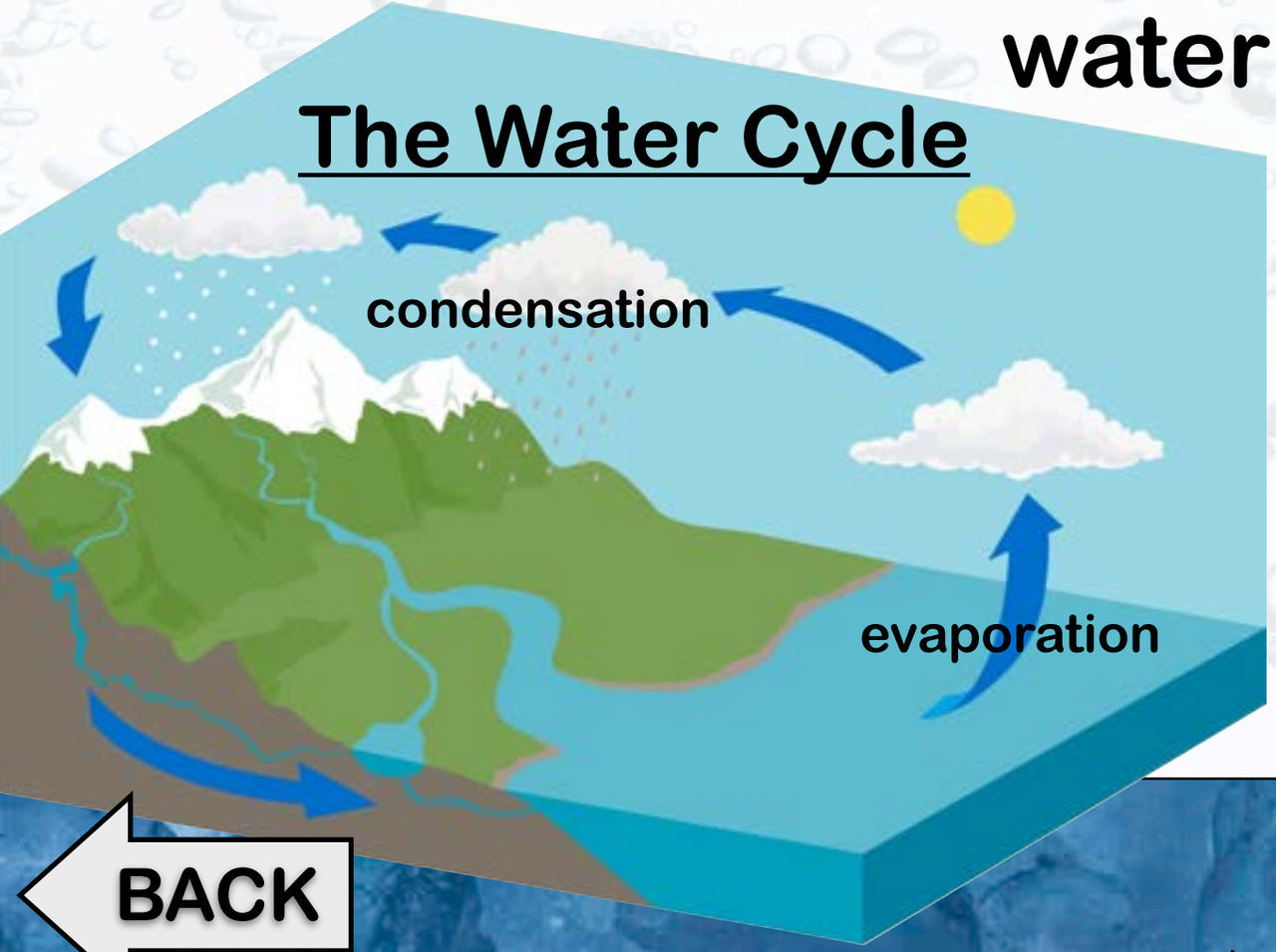
When water and other liquids are heated, they turn into a gas. Although it looks as though the water in a puddle has disappeared, it still exists but as a gas. This is how we get rain. The water heats up and turns into water vapour and then the gas forms clouds when the water vapour cools again. When it cools down even more it turns back into a liquid and falls to the ground as rain. This process is known as the water cycle.



The process when a gas cools down and turns into a liquid is called CONDENSATION.

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Can you think of any more examples of evaporation?

Discuss your ideas.

What ideas did you come up with?

Examples of evaporation:

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