

What is a Dehumidifier

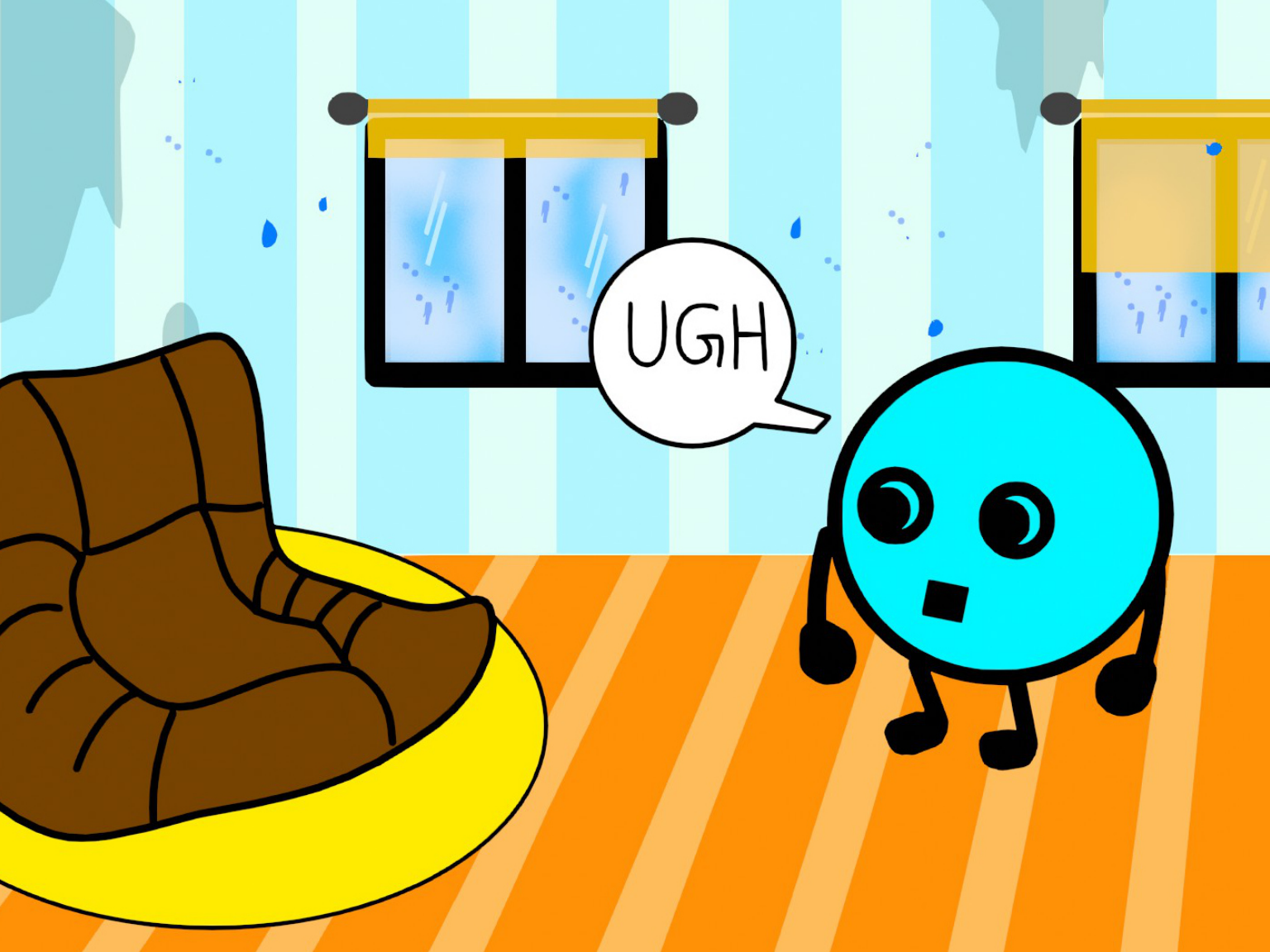
What is a Dehumidifier

Concepts for little brains

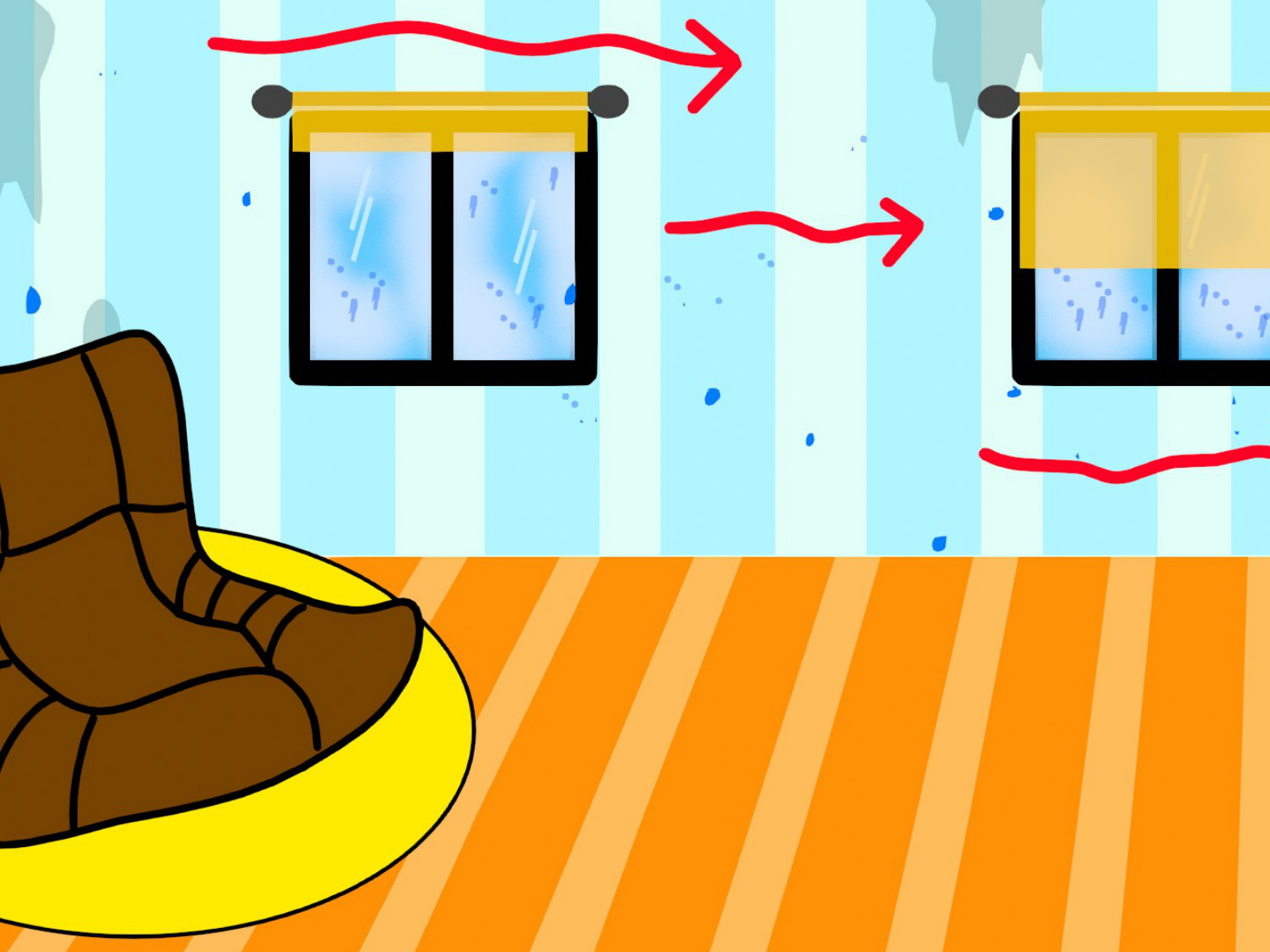
WRITTEN and ILLUSTRATED

BY

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Have you ever walked into a room
and thought... ugh,
why does the air feel sticky?



That's not just in your head. It's because water is floating around in the air — even though you can't see it!

Humidity

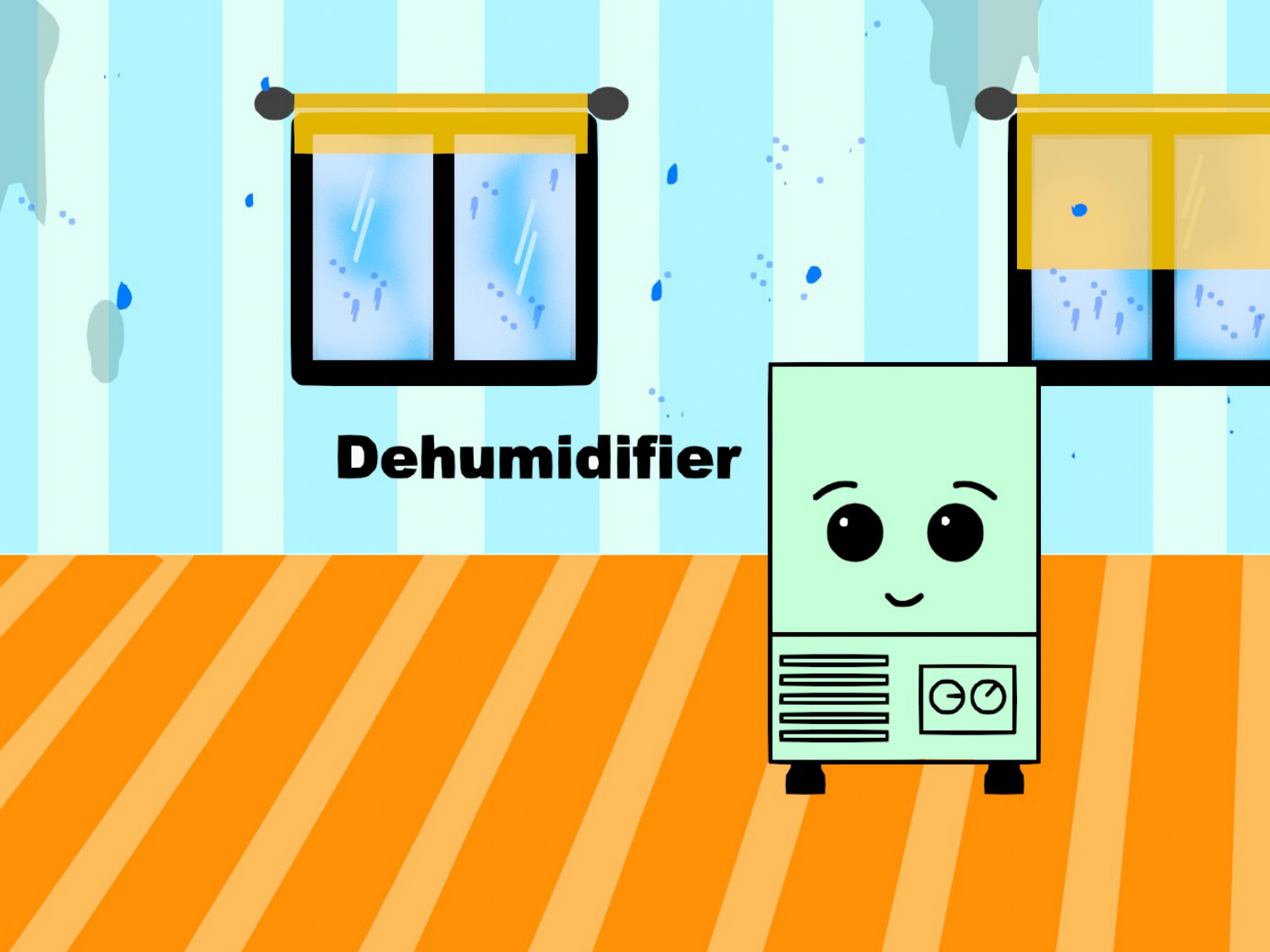
A hand-drawn illustration on the left side of the slide. It features a magnifying glass with a black outline. The lens of the magnifying glass is focused on a collection of blue water droplets of various sizes. The background of the slide is divided into vertical stripes of light blue and white.

That invisible water is called **humidity**.

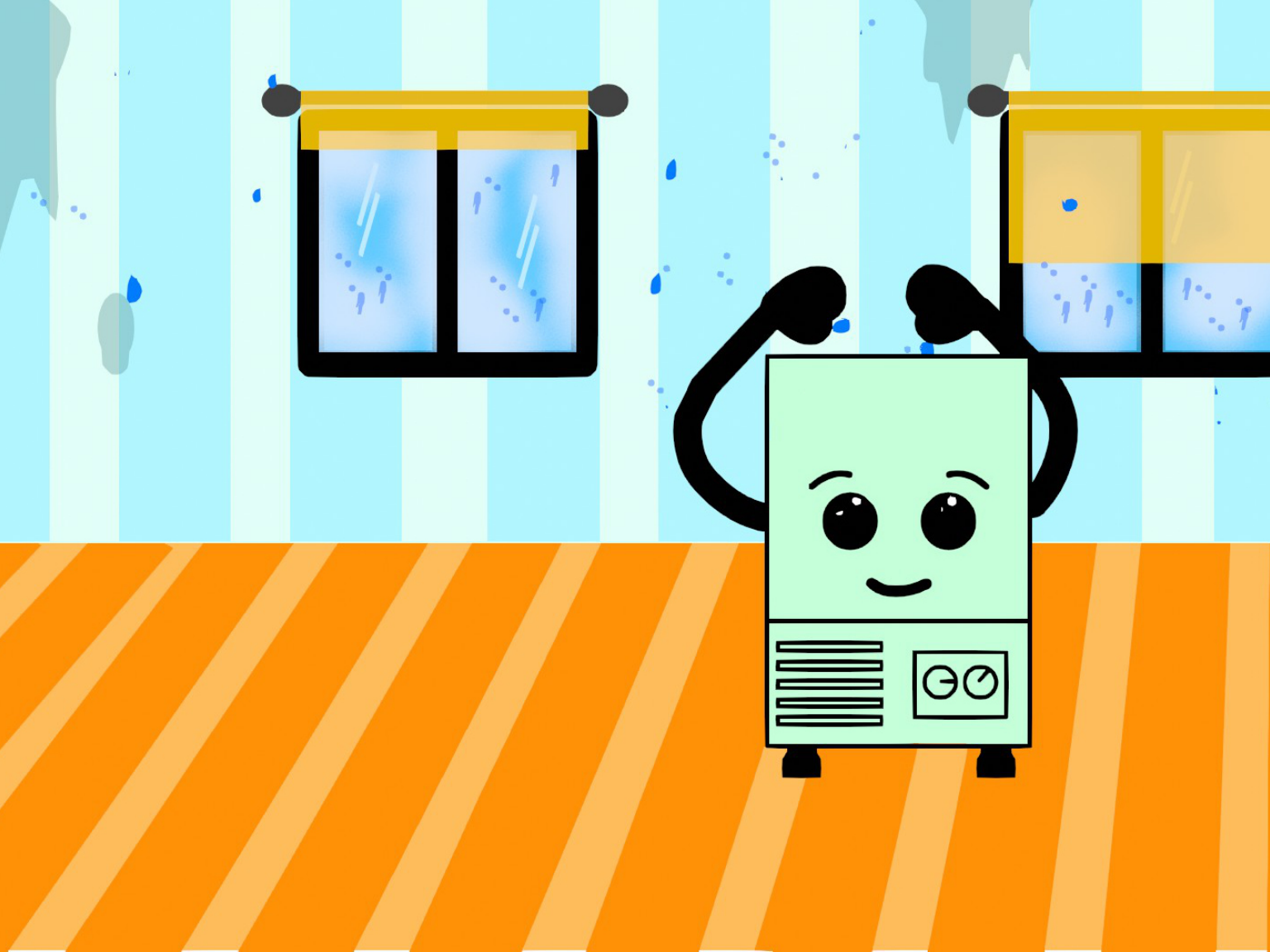
Can you think of a time when the air felt sticky?

Maybe after a rainy day?

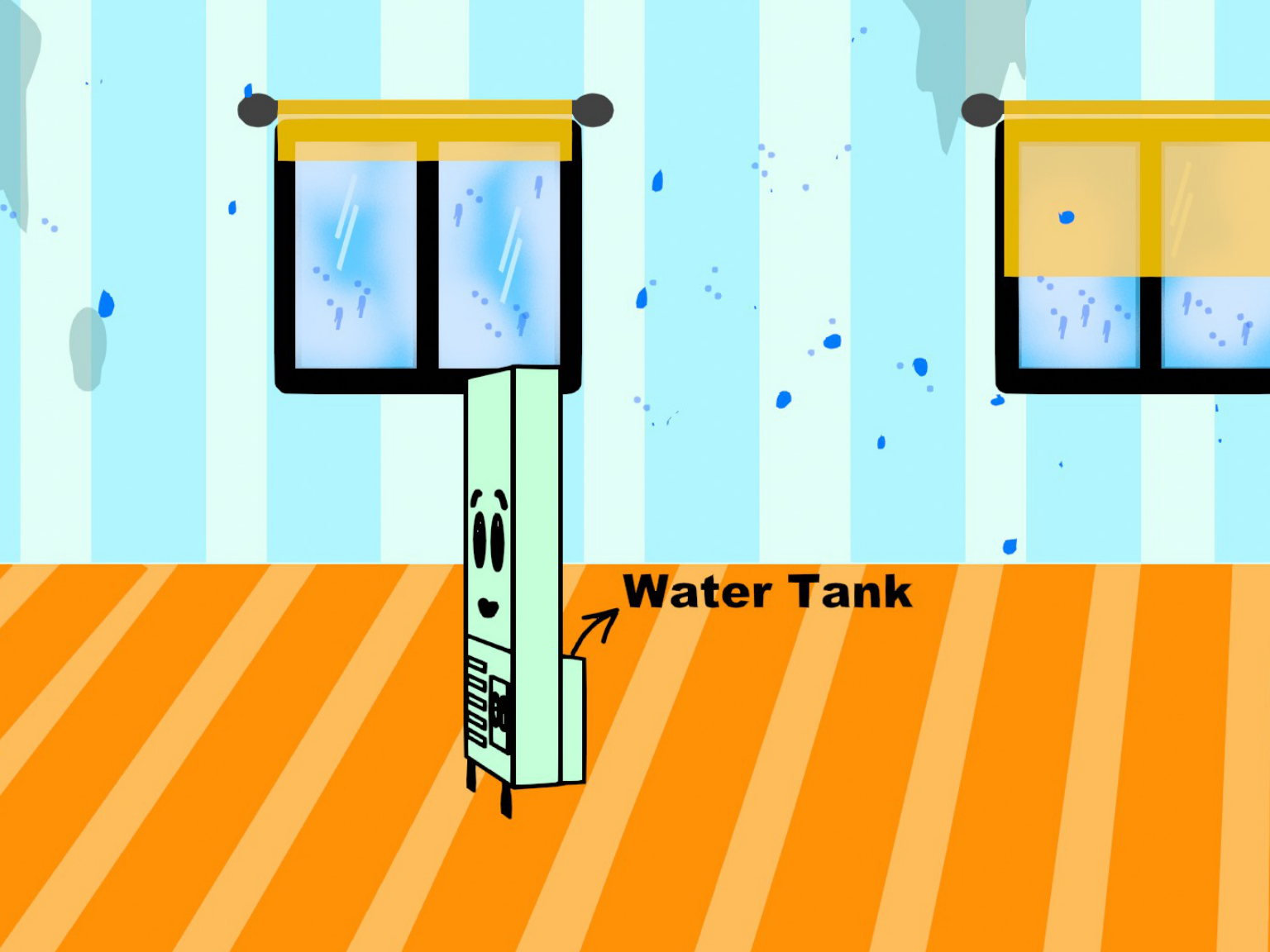
Pause and think!



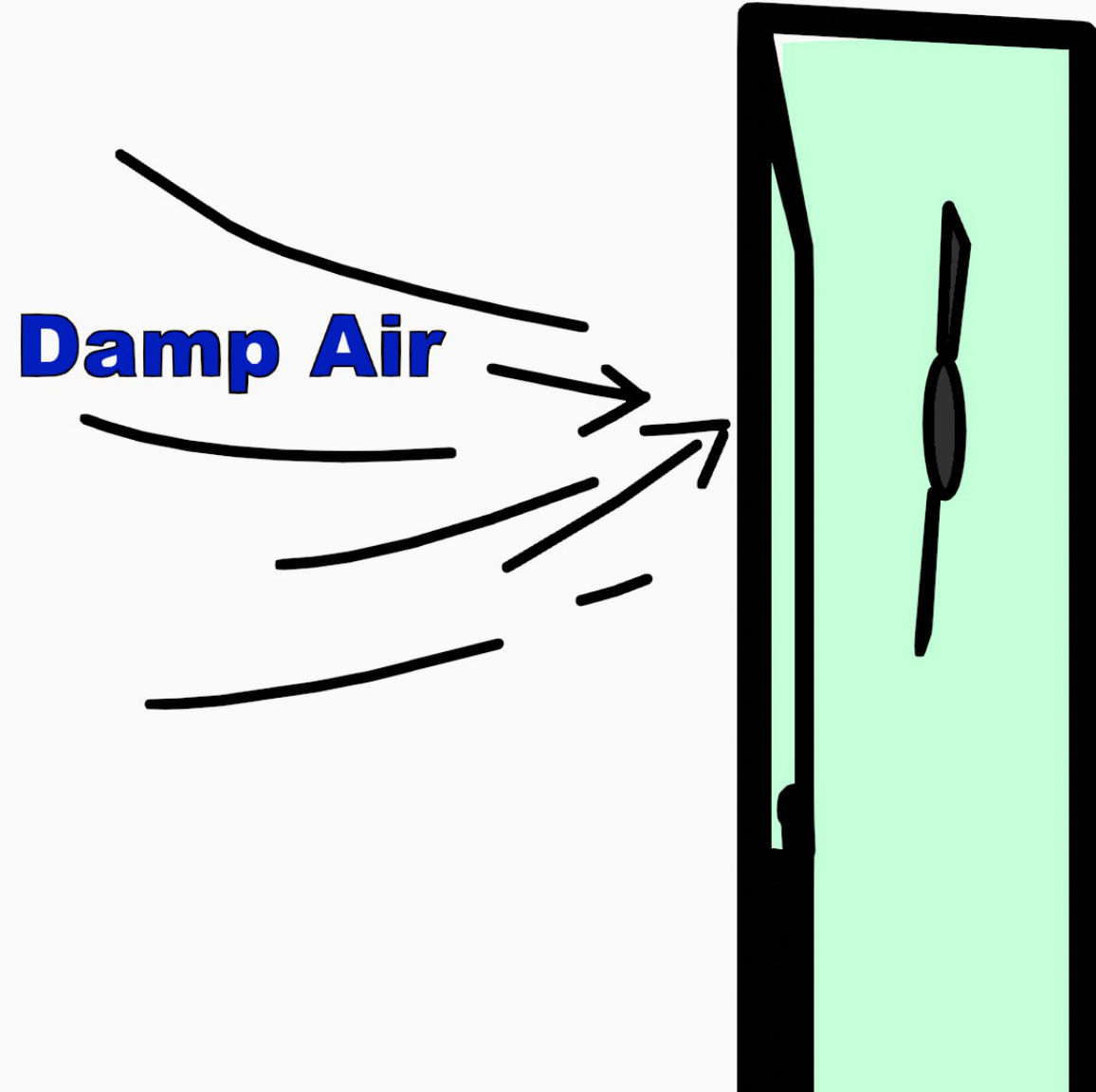
Now here's a cool helper: the dehumidifier.



Think of it as a water catcher for the air!



It usually looks like a little box with a **water tank**.

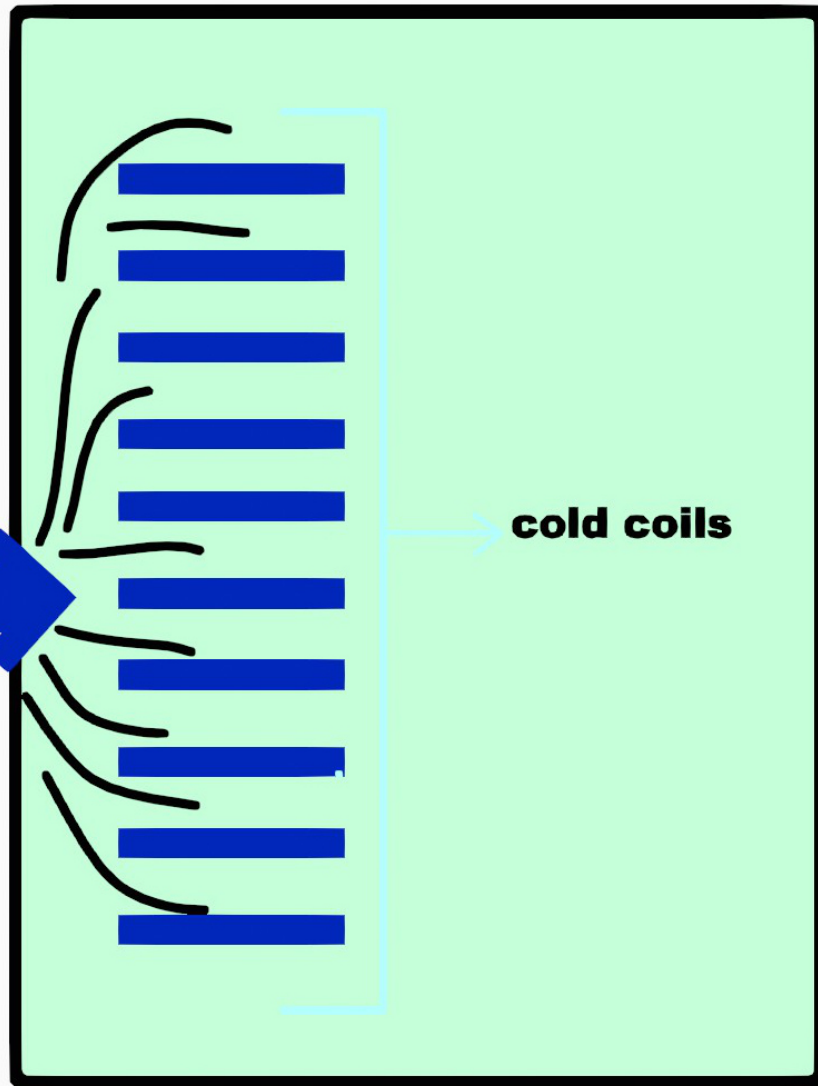
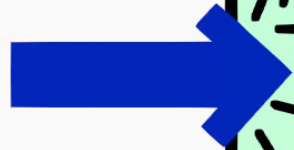


So how does it work?

Step one — a fan inside pulls the air in.

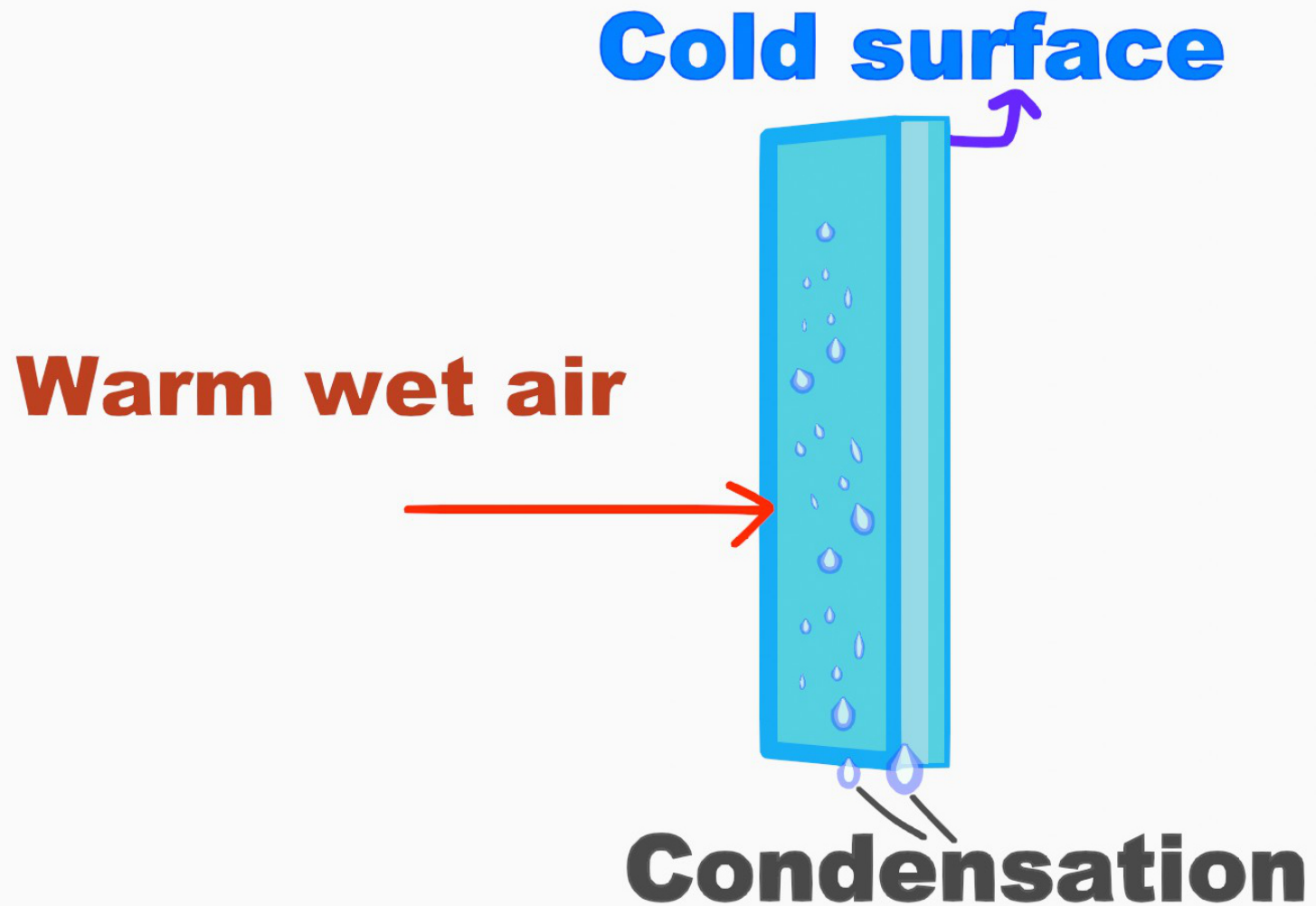
It's a bit like when you take a deep breath — the air rushes inside, and that's exactly what the dehumidifier does with humid air.

Damp Air



cold coils

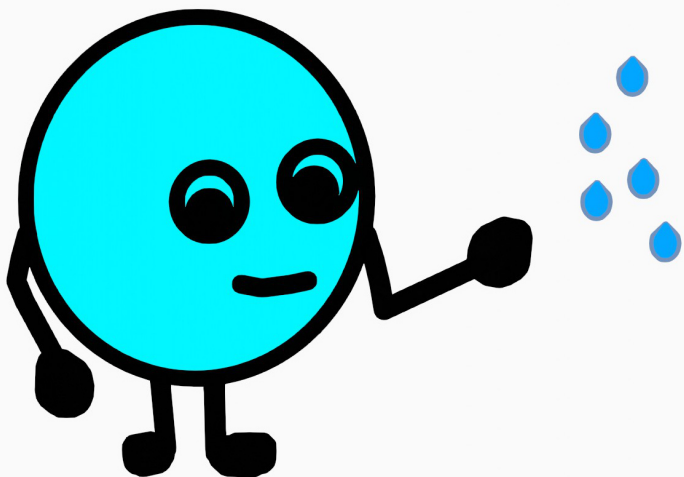
Next, the air passes over super cold coils.



And here's the magic:

when warm, wet air touches something cold,
tiny water drops appear.

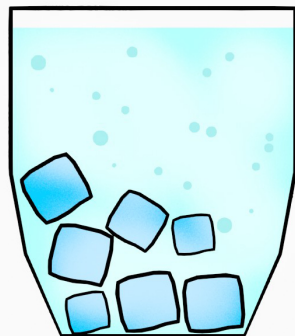
That's called **condensation**.

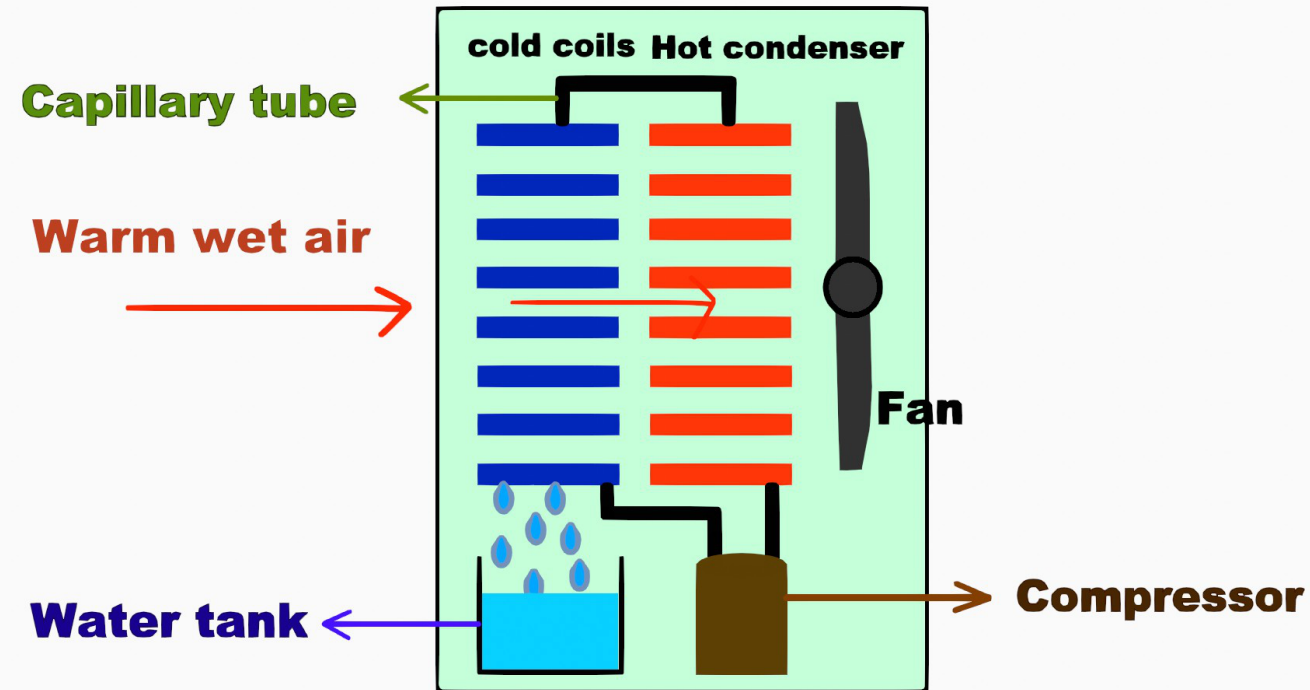


Pause and guess:

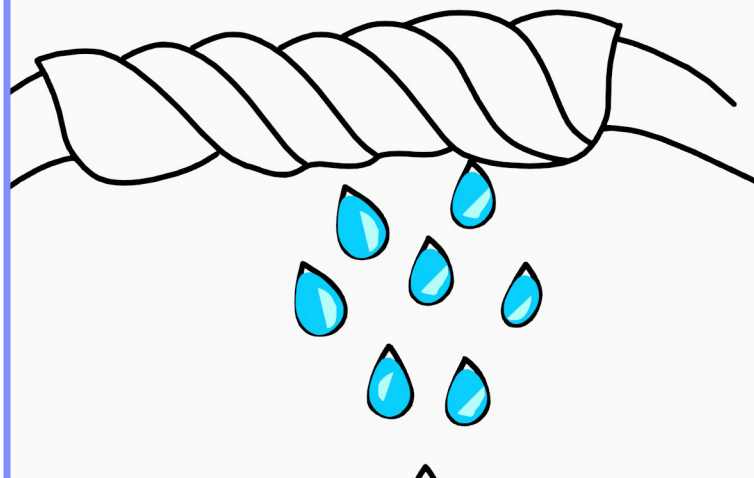
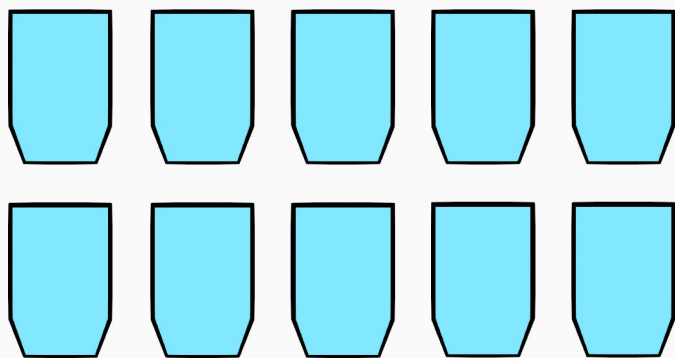
Can you name something at home
where you've seen water drops form?

(Hint: your cold drink glass!)





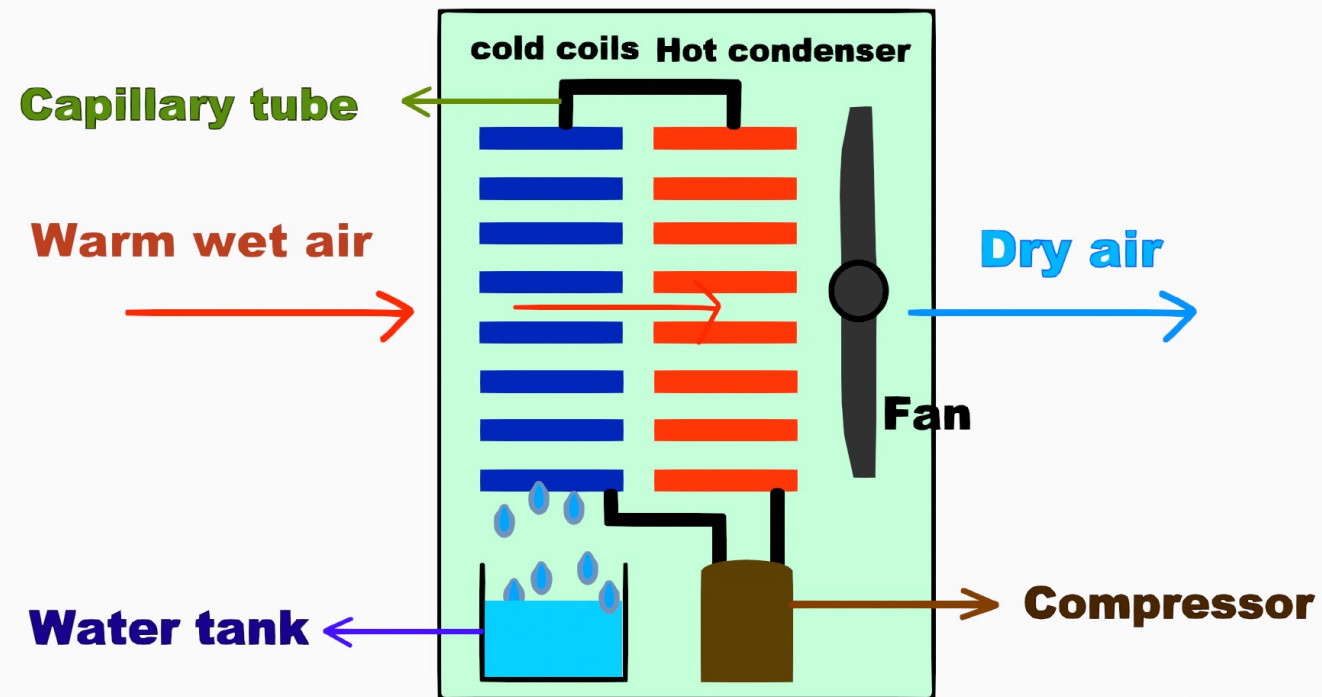
Those water drops drip
into a tank inside the machine.



Fun fact:

Some dehumidifiers can fill up more than 10 glasses of water in one day!

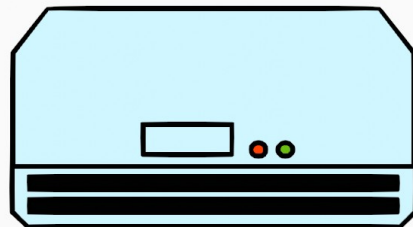
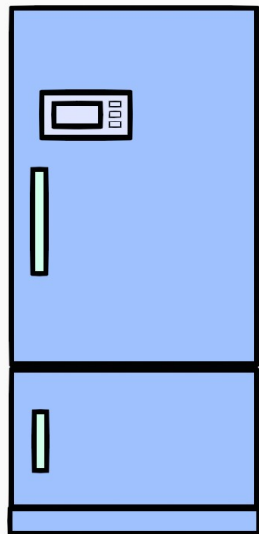
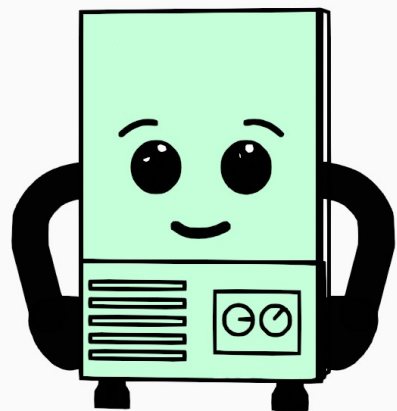
That's like squeezing water right out of thin air.



Now the water is gone, and the machine blows out dry air.

Imagine holding a wet towel in the sun. After a while, it feels light and fresh, right?

That's what the room feels like after a dehumidifier does its job.

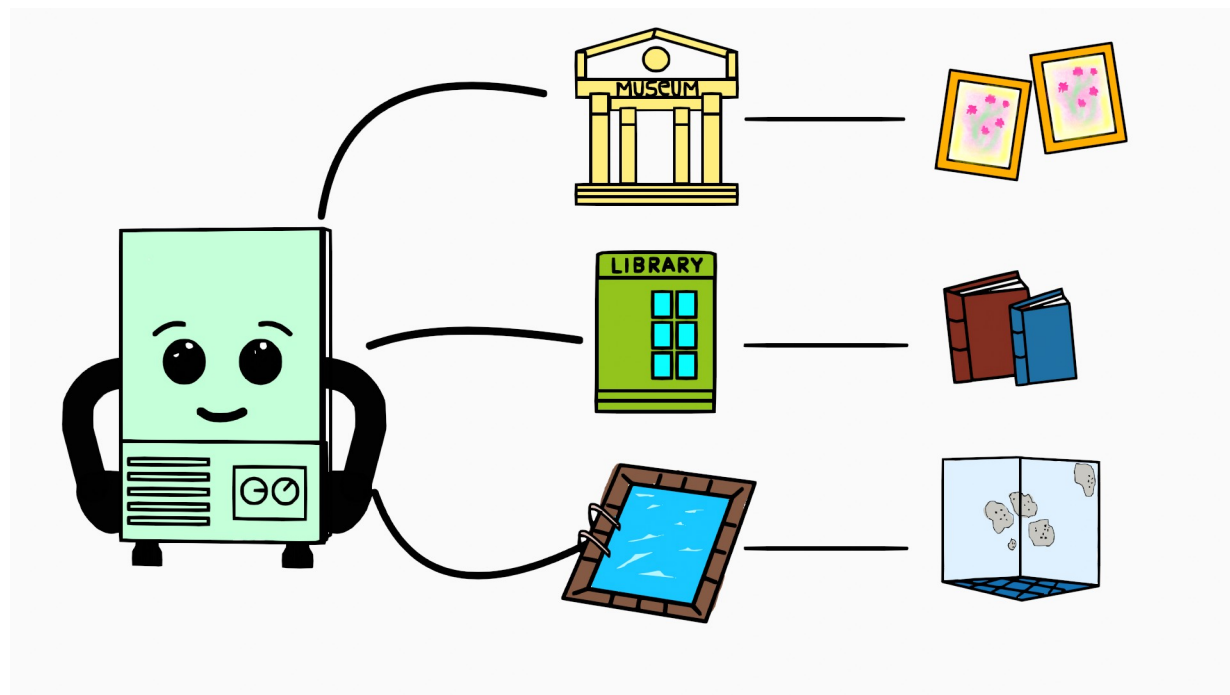


Guess what?

Dehumidifiers aren't the only ones using this trick. Your **fridge** does it too. So does your **air conditioner**.

That's why you sometimes see water dripping from them.

Next time you grab something from the fridge, check for little water drops inside — you'll know the **secret**!



Dehumidifiers are used in more places than you think.

Museums use them to protect paintings.

Libraries use them to save old books.

Even **swimming pools** need them so the walls don't get damp.

Did you know?

Too much humidity can even make **mold** grow on bread or walls.

Yuck! Dehumidifiers stop that from happening.

So, let's sum it up:

A dehumidifier pulls in wet air, cools it,
collects the water,
and sends out fresh, dry air.

Easy, right?

Here's a challenge for you:

Look around your home today.

Can you spot places where there's **condensation** —
like on windows, bottles, or tiles?

That's the same process your dehumidifier uses!