

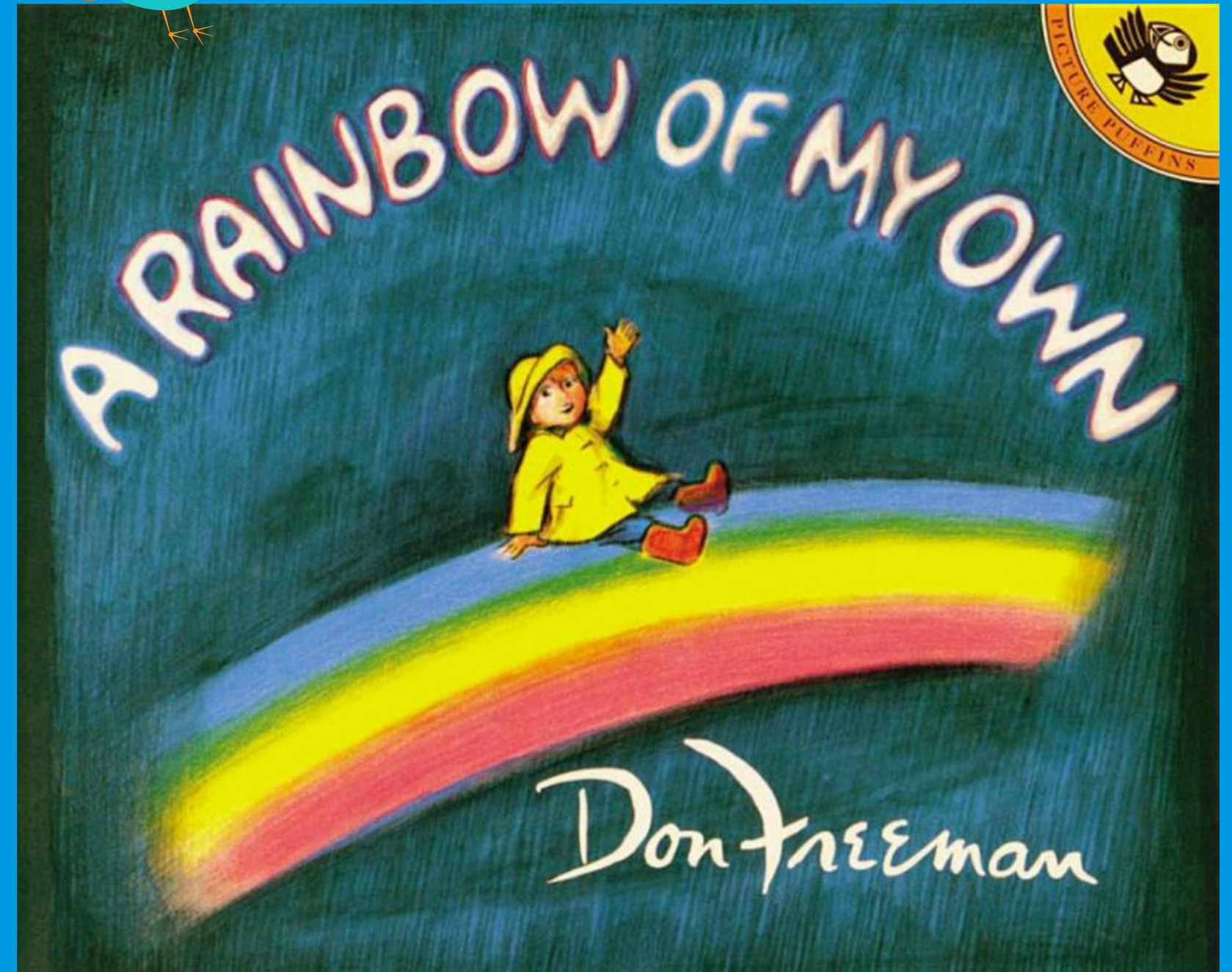
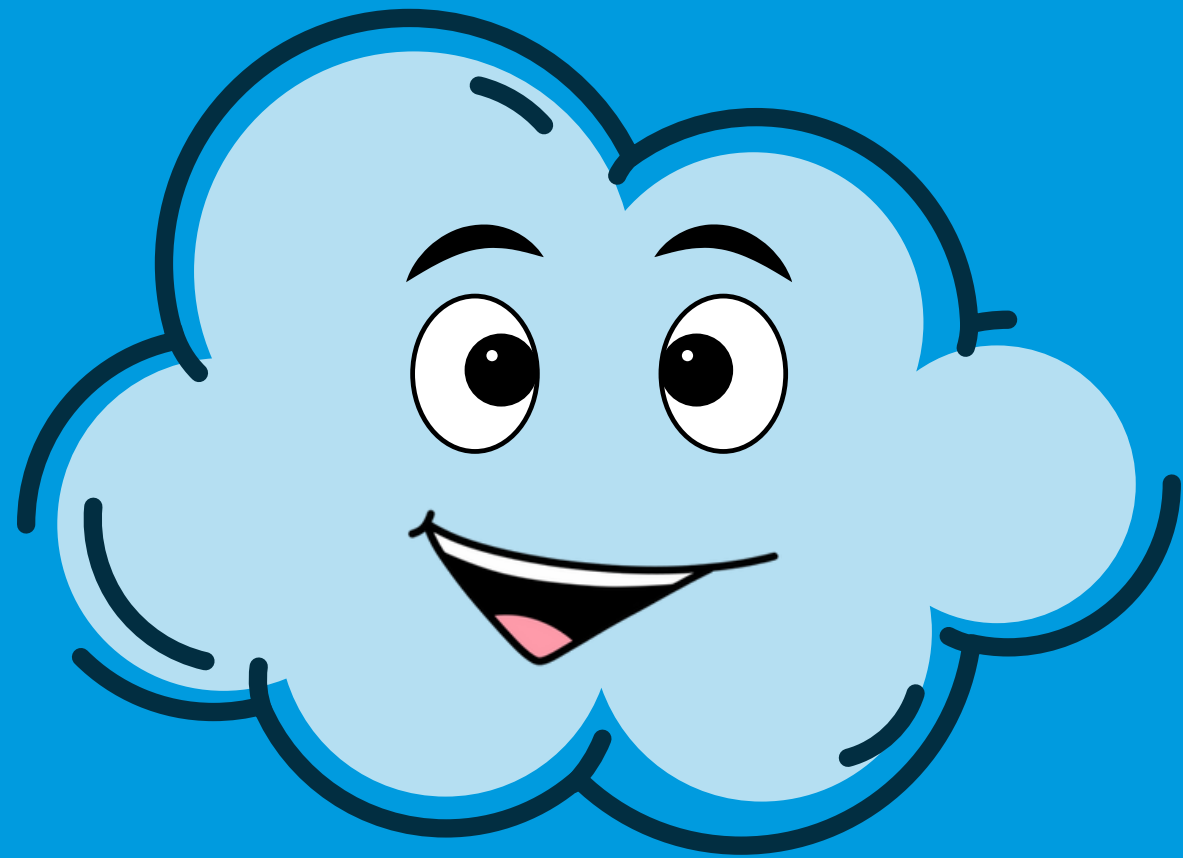


RAINBOWS AND WATER MAGIC



LITTLE LIBRARIANS

LET'S START OUR
ADVENTURE WITH...



A RAINBOW OF MY OWN
BY DON FREEMAN

Today I saw a rainbow. It was so beautiful that I wanted to catch it for my very own. I put on my raincoat and hat and ran outdoors. Fast as the wind I ran.

But when I came to where the rainbow should have been, it wasn't there. I thought, maybe some rainy day a rainbow will come and stay a while.

I'll be walking along slowly, and suddenly I'll hear a soft whirring sound like the wings of a bird. I'll look around and see... a rainbow following me!



I'll know by the way it circles and whirls it wants to play. I'll climb up one side and slide down the other. My rainbow will make a peacock fan for me to walk in front of and a hammock for me to swing in.

We'll play a game of hide-and-go-seek. I'll shut my eyes and count to twenty, and then look all around. If I were a rainbow, where would I hide?

In a flower garden, of course! Rows of flowers look like a rainbow



Suddenly the sun came out again from behind the rain clouds, and my pretend rainbow disappeared the way real rainbows do.

But when I came back home, I saw something glowing inside the window of my room, and when I ran indoors, there was a rainbow dancing on the wall!

The sun was shining through the water in my goldfish bowl, and it made a rainbow just for me----a rainbow of my very own!



The background is white and decorated with various colorful, hand-drawn abstract shapes and patterns. These include a pink shape in the top-left, a yellow shape with diagonal lines in the top-left, a blue shape in the top-center, a pink shape with diagonal lines in the top-right, a green shape in the top-right, a blue spiral in the middle-right, a yellow shape in the middle-right, a pink shape in the bottom-right, a pink shape in the bottom-center, a yellow shape in the bottom-center, a green shape in the bottom-left, and a blue shape with diagonal lines in the bottom-left.

**NOW IT'S
EXPERIMENT
TIME!!**

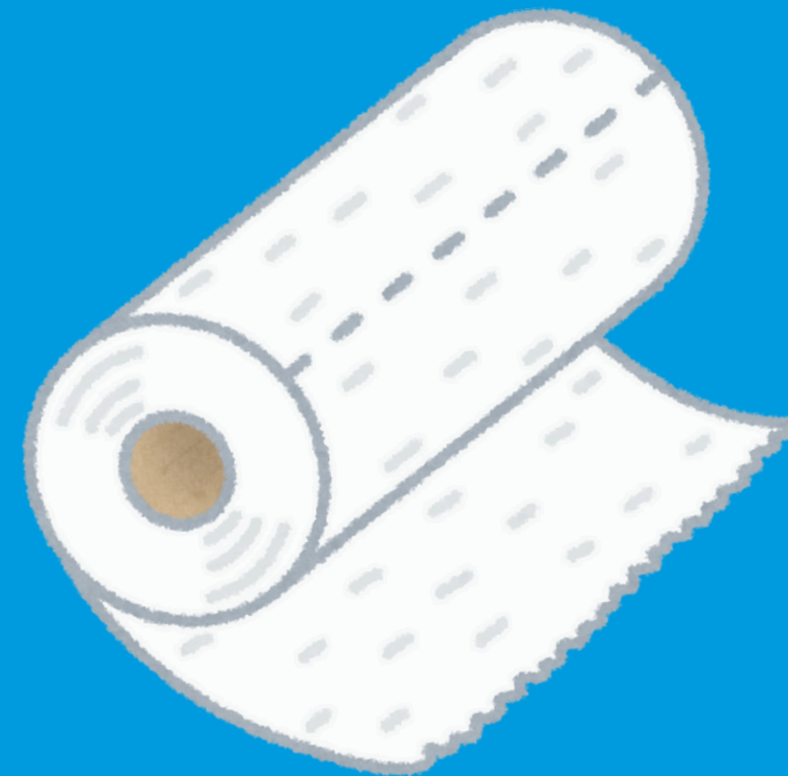
SUPPLIES



6 CLEAR CUPS



WATER



5 PAPER TOWELS

cut or folded
into long strips



FOOD COLORING



Line all 6 of your cups up
Fill each one HALFWAY with water



Plain



Plain



Plain



Red



Yellow



Blue

Add 7 drops of food coloring to the cups with water and stir.
The other cups should stay clear!

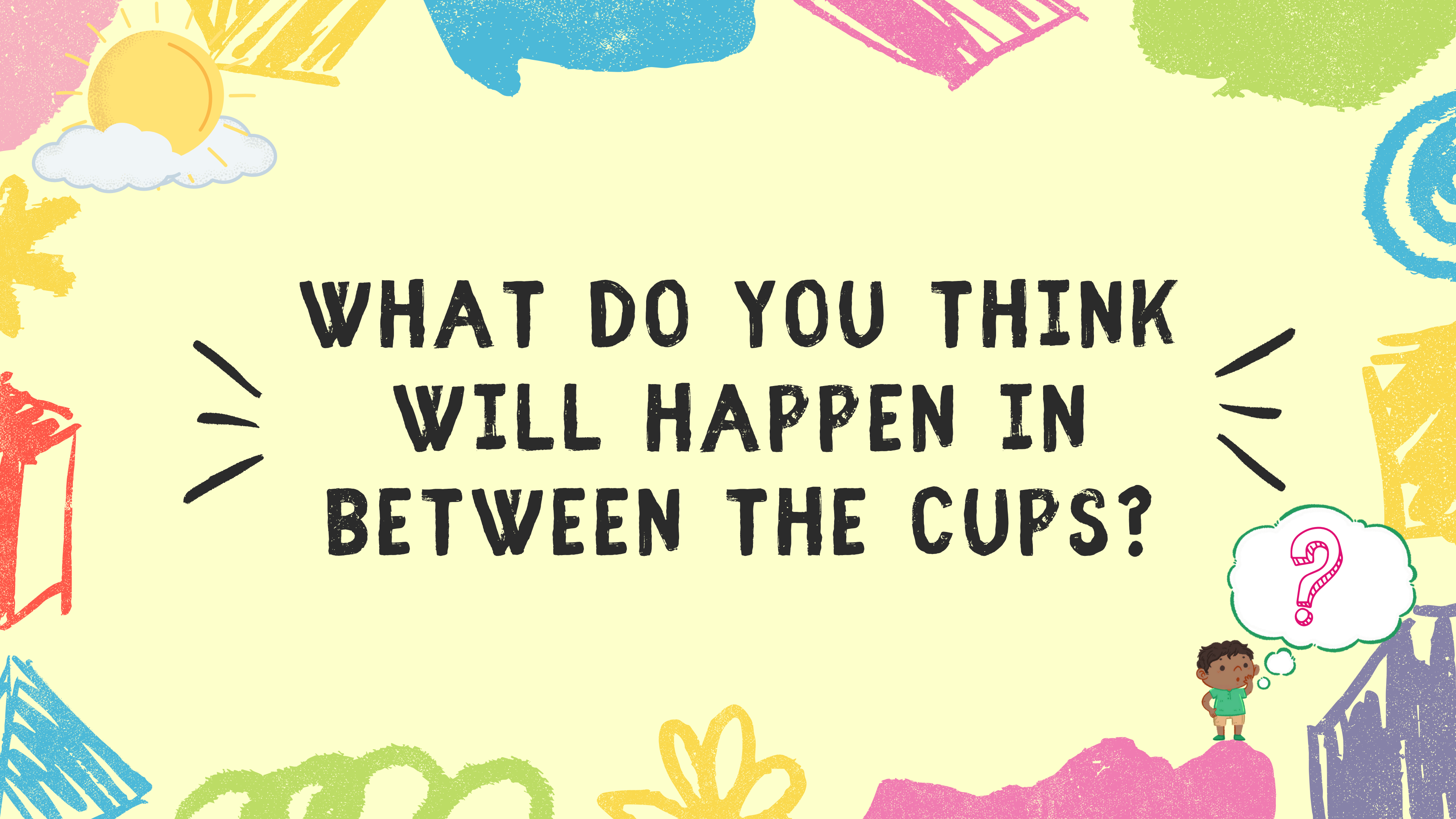


GENTLY place your paper towel strips in your cups.

Each end of the paper towel should be in the water of TWO different cups! !

YOUR EXPERIMENT SHOULD LOOK LIKE THIS!





**WHAT DO YOU THINK
WILL HAPPEN IN
BETWEEN THE CUPS?**





NOW LET'S LEARN ABOUT THE SCIENCE



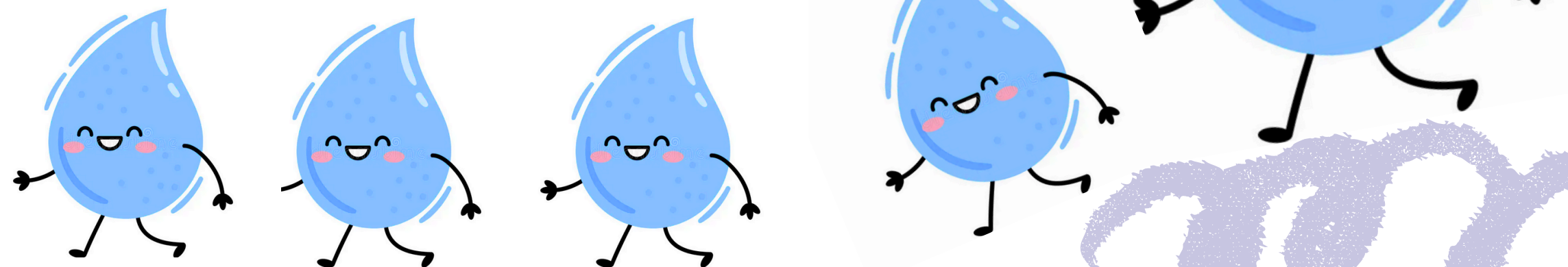
WE JUST SAW CAPILLARY ACTION!

What is capillary action?

Capillary action is when water can move by itself! This includes moving up against gravity.

How can water move UP on its own?

Water likes to stick to things (like the paper towel) and can also stick to itself. As long as you give the water a material to stick to, the water will “climb” up because it likes to stick together!



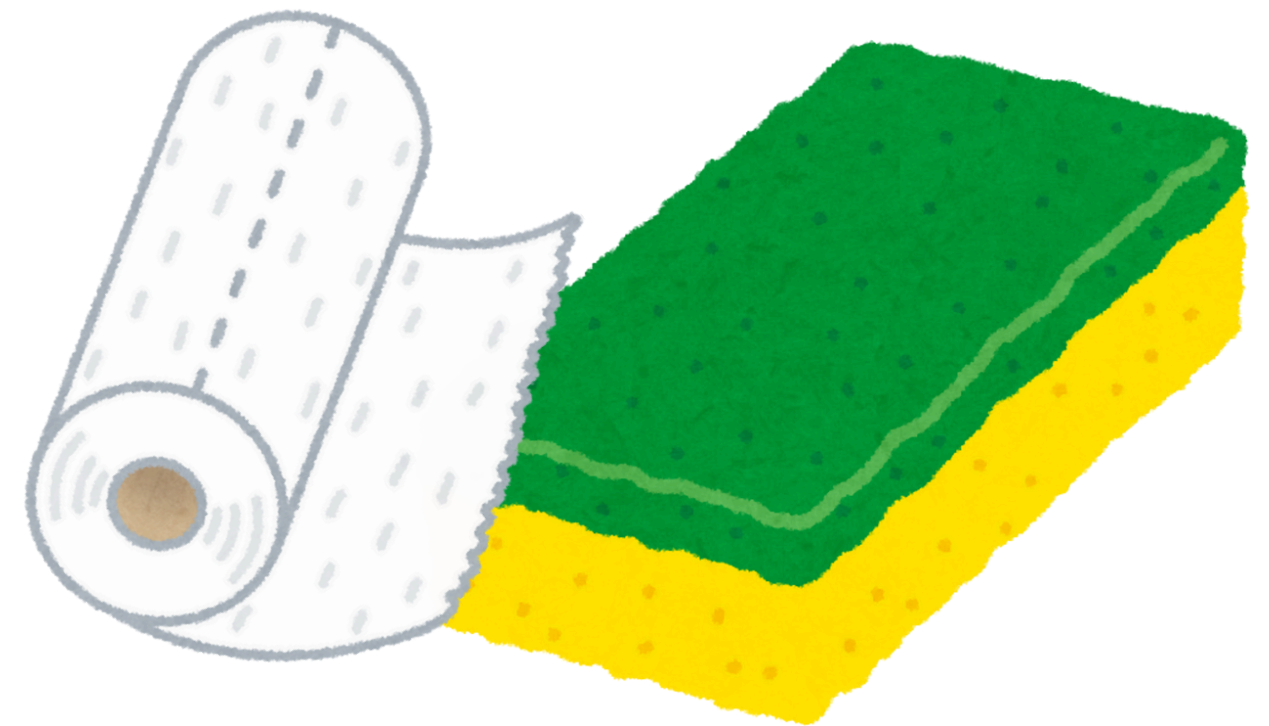
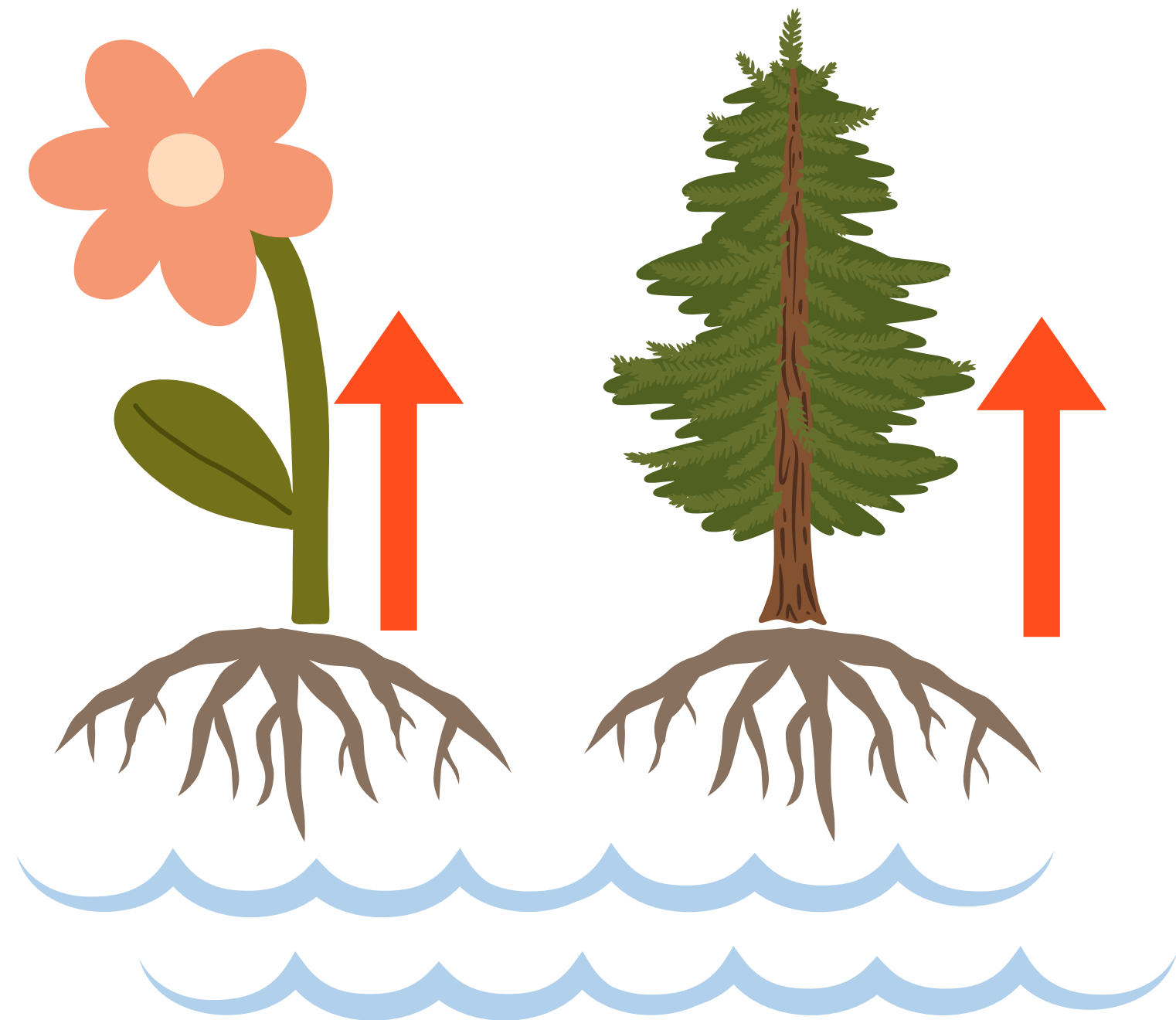
EXAMPLES IN THE REAL WORLD

FLOWER STEMS

TREES

SPONGES & TOWELS

How they get water from their roots to their leaves!



IN OUR RAINBOW EXPERIMENT..

What We Saw Happen:



The water climbed up the paper towels → CAPILLARY ACTION!



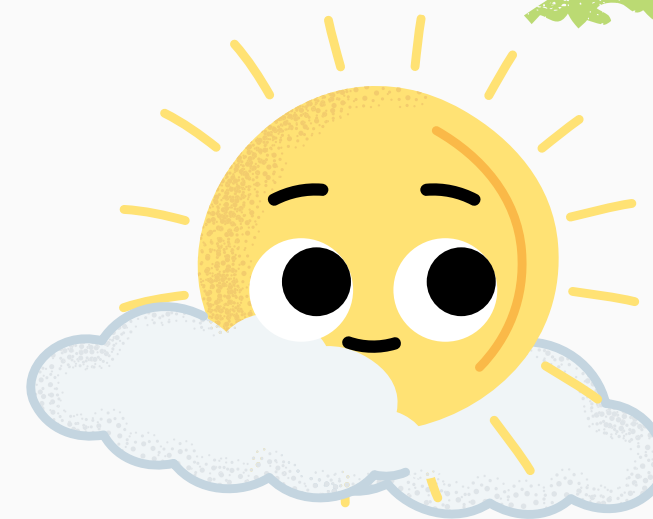
The colors mixed into the next cup and traveled



The water “walked”, creating your very own rainbow!



**GREAT JOB
SCIENTISTS!
ANY QUESTIONS?**





SOURCES

- <https://pencilstopigtails.com/easy-science-projects-for-kindergarten-and-preschool-teachers/>
- https://www.youtube.com/watch?v=B8PYJffyy5A&ab_channel=RockinReadAloud
- <https://www.growingajeweledrose.com/2019/02/walking-water-experiment.html>
- <https://www.learningresources.com/blog/diy-crawling-rainbows/?srsltid=AfmBOoqmmUNz36c9bhZ6VAmv2Srrf3UcXkrONr1iipbSKqsyLEcHZcSC>