

# WATER BENDING

Do you think water can bend? Let's find out with this super simple science experiment!

## INSTRUCTIONS

**STEP 1:** Blow up a balloon.

**STEP 2:** Turn on your sink so that a small stream of water is continuously flowing.

**STEP 3:** Rub the balloon in your hair for 30 seconds.

**STEP 4:** Now slowly move the balloon close to the stream of water.

What do you observe?

**STEP 5:** Record your observations.

## SUPPLIES

Balloon  
Sink

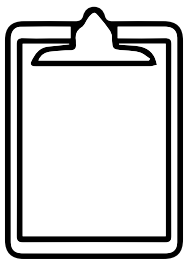
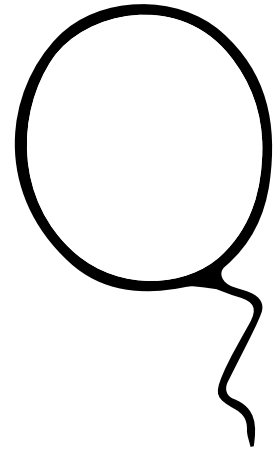
## THE SCIENCE

Rubbing the balloon against hair caused the transfer of negative charges (electrons) from the hair to the balloon's surface, resulting in a negative charge on the balloon. The water cascading from the sink comprises both positive and negative components in a mixed state. However, when the negatively charged balloon nears the water stream, the positively charged segments of the water molecules (hydrogen atoms) are drawn to the negative charge, causing the entire stream to move towards the balloon..



# Water Bending Observations

Use this worksheet to process and evaluate your work.



RECORD

What did you see? Did the water behave like you predicted?

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Is there a limit to the distance from which the balloon can attract water?

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How does rubbing the balloon against different materials affect its ability to attract water?

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What happens when you try to attract water with a balloon that hasn't been rubbed against anything?

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