

Condensation Investigation

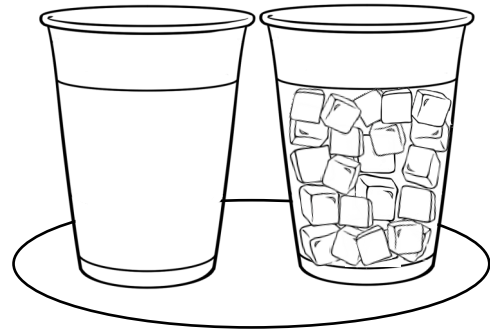
Name _____

Date _____

Questions to Explore: What is condensation? Where does it come from?

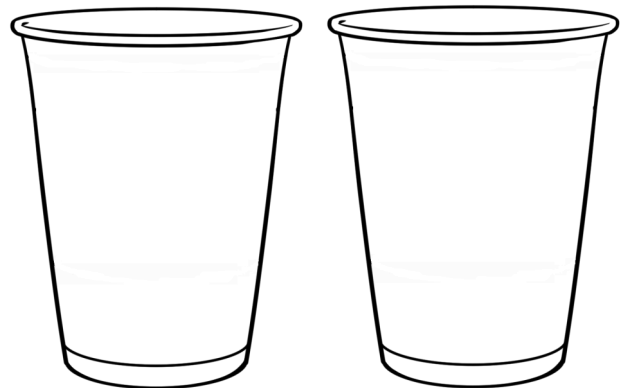
Materials Needed

- tray or plate
- 2 identical clear cups
- water (room temperature)
- food coloring
- crushed ice or ice cubes
- clear plastic wrap
- paper towels



Part One – Observing

1. Place the two cups next to each other on a plate or tray. Fill one of the cups about 3/4 full of ice. Pour enough room-temperature water to completely cover the ice. This will be the “experimental” cup.
2. Pour enough water into the second cup so that the water level is the same level as the liquid in the first cup. This will be the “control” cup. Throughout the investigation, you will leave this cup alone so you can compare the results of the experimental cup to it.
3. Observe both cups of water for 3 minutes. Touch the outsides of the cups. Draw what happened and describe in words what you observed.



Control Cup
(Plain Water)

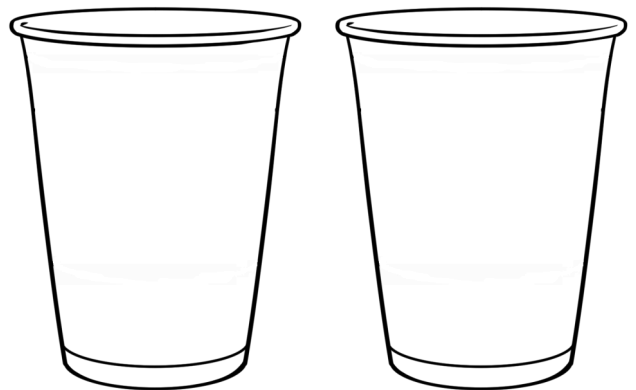
Experimental Cup
(Ice Water)

Part Two – Reflecting and Exploring

1. The moisture on the outside of the experimental cup is condensation. What is it? Where do you think it came from? Why didn't it appear on the control cup? Record your thinking below.

2. Do you think the condensation came from inside the cup? How could you find out? Write a plan for testing one of your ideas. What will you do to the experimental cup? Remember not to change the control cup.

3. Conduct your experiment and record your results below.



Control

Experiment

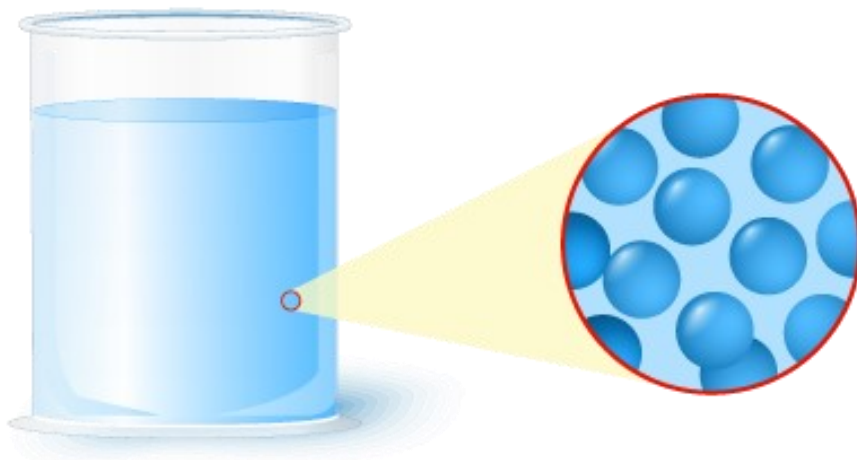
4. Where does condensation come from? Why do you think it appeared on the cup with ice? What are some examples of condensation around us?

Changing States of Matter

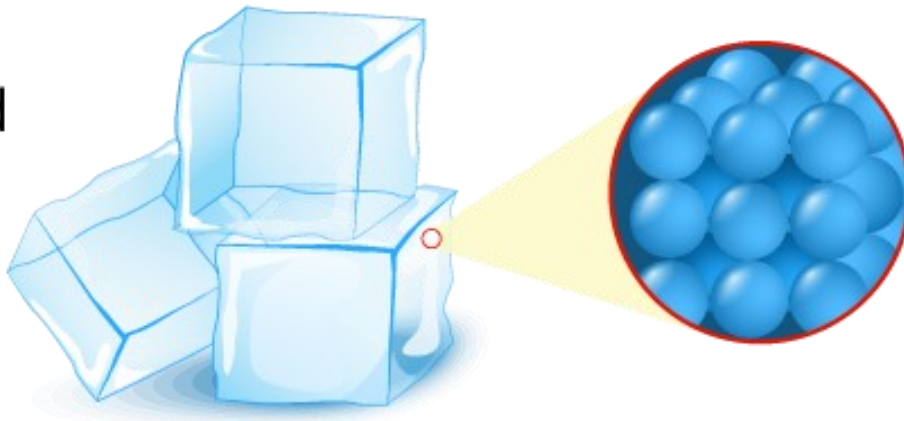
Gas



Liquid



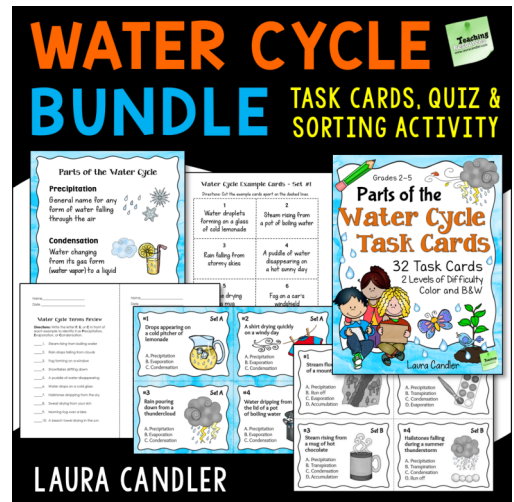
Solid



More Water Cycle Teaching Resources

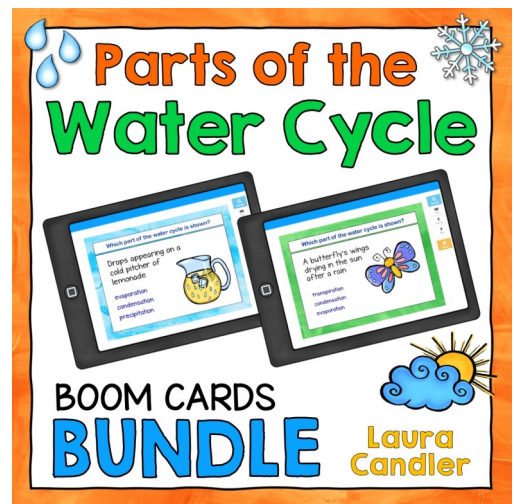
Water Cycle Task Cards Bundle

If you need printable water cycle resources, be sure to check out my [Water Cycle Task Cards Bundle](#)! It includes 32 task cards that include everyday examples of evaporation, condensation, and precipitation. The bundle also includes a fun sorting activity, printables, and a short quiz.



Water Cycle Boom Cards Bundle

Boom Cards are self-grading, digital, interactive task cards that are perfect for classroom use and remote learning at home. My [Water Cycle Boom Cards Bundle](#) includes two sets of Boom Cards. Level 1 reviews the essential concepts of evaporation, condensation, and precipitation. Level 2 covers those concepts as well as transpiration, accumulation, and run-off.



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