

# 6th Grade Science 1/24/19

Objective: What is evaporation and condensation?

CW: Investigation 13.3

HW: Reading 13.4 pgs. 130-131 Answer questions and write in margins

# Agenda

1. Evaporation Demonstration
2. Investigation 13.3



# Academic Vocabulary



# Which will evaporate faster?





*Where will it evaporate faster - on your hand or on your desk?*



# Open Ended Question

**Predict: Which will evaporate faster, rubbing alcohol or water? Where will it evaporate faster, on your hand or on your desk. When you have finished your prediction, raise your hand.**

# Open Ended Question



**Which evaporated faster, the rubbing alcohol or the water? Why do you think this is?**

# Open Ended Question

**Where did it evaporate faster, on your hand or on your desk? Why do you think this is?**

# Draw It



use the particle model to explain why water droplets form on the outside of the cup.



# Open Ended Question

**Why did the rubbing alcohol evaporate faster than the water? Why did it evaporate faster on your hand than on the desk?**

# Investigation 13.3 pg. 128

**Summary:**  
*What will we do?*

We will use our particle model of matter to explain some everyday observations.



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<b>Safety/ Responsibility:</b>	Be aware of your surroundings. Clean up any water on the tables, floor, etc.
<b>Procedure:</b>	<input type="checkbox"/> Look closely at the bottle of icy water. What do you notice? Record your observations in the data table  <input type="checkbox"/> Look at the cup of water at room temperature. What do you notice? Record your observations in the data table

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<b>Data:</b> <i>Qualitative or quantitative?</i>	<b>Title:</b> _____						
	<table border="1"><thead><tr><th></th><th><b>Observations</b></th></tr></thead><tbody><tr><td>Bottle of icy water</td><td></td></tr><tr><td>Bottle of room temperature water</td><td></td></tr></tbody></table>		<b>Observations</b>	Bottle of icy water		Bottle of room temperature water	
		<b>Observations</b>					
Bottle of icy water							
Bottle of room temperature water							

**Analysis and Interpretation:**

1. Use what you know about particles (refer to your particle model) to explain the differences you observed in the two cups.
2. Condensation is the process of a substance in the gaseous phase going into the liquid phase. Explain condensation using a particle model.
3. Compare evaporation and condensation.
4. Using the particle model, explain why water forms on the outside of a cold can of soda pop. (Hint: Be sure to tell where the water on the outside of the can comes from.)

# Draw It

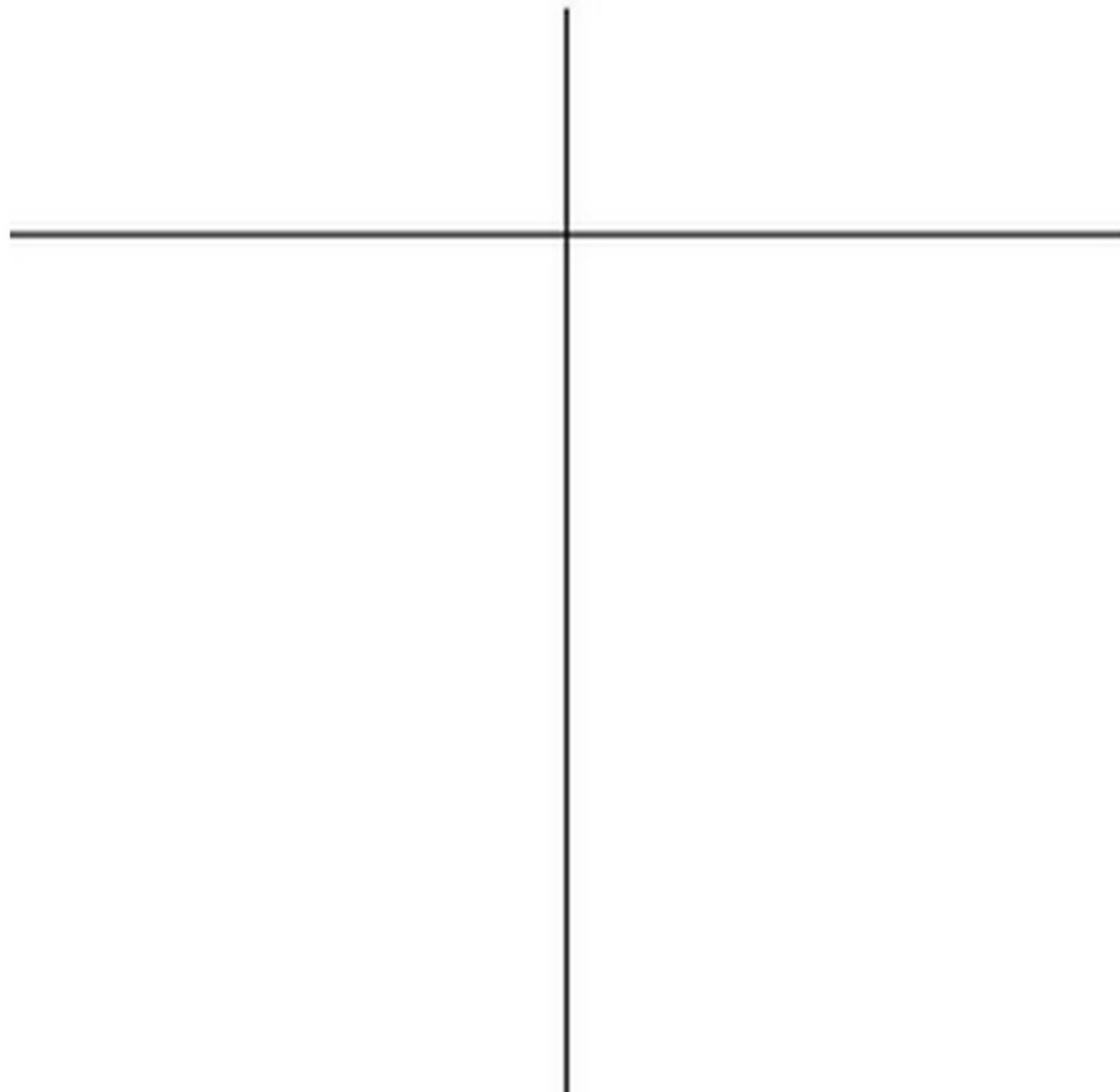


Condensation is the process of a substance in the gaseous phase going into the liquid phase. Explain condensation using a particle model.

# Draw It

# Compare evaporation and condensation

T Chart

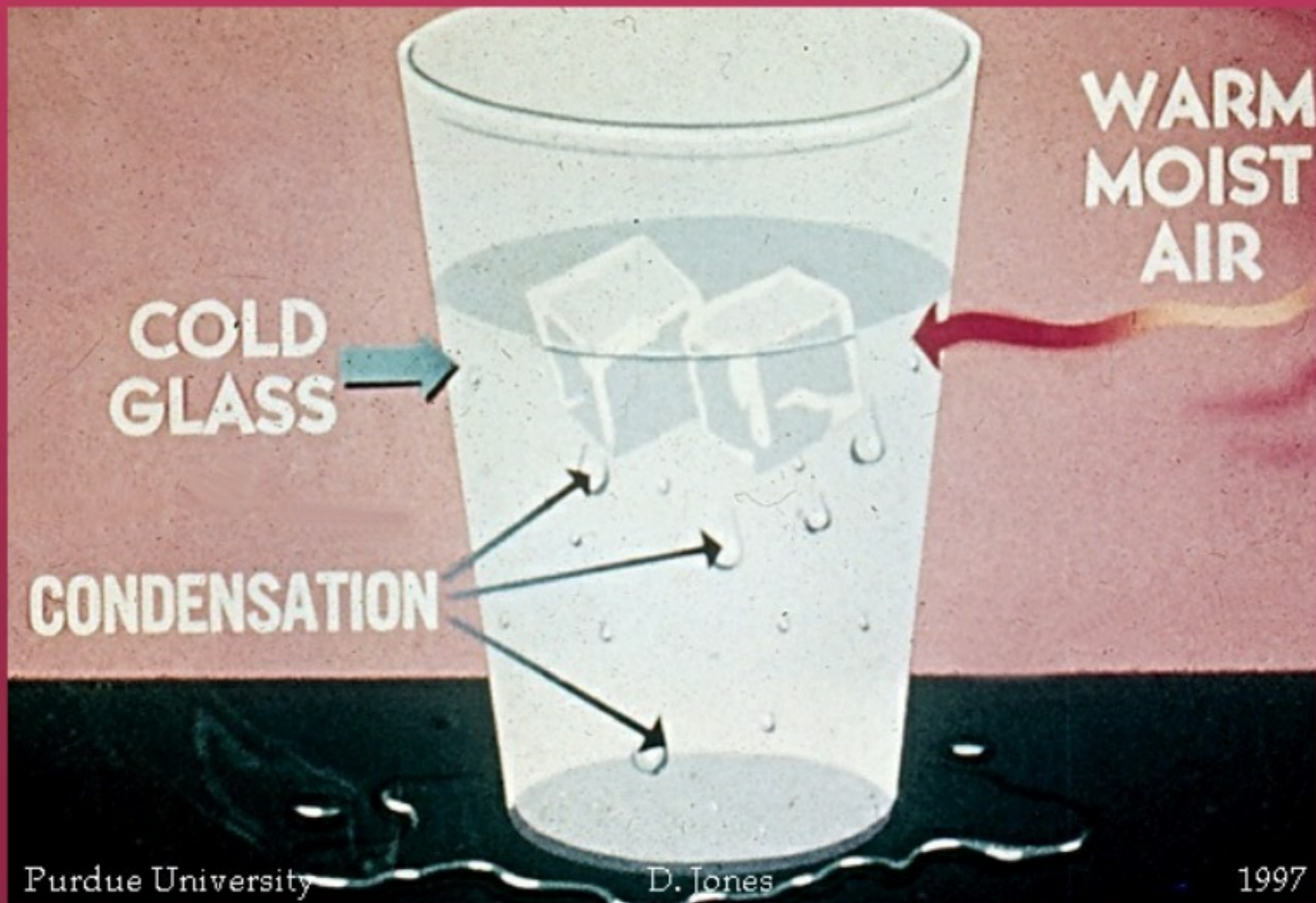


# Open Ended Question

**Using the particle model, explain why water forms on the outside of a cold can of soda pop. (Hint: Be sure to tell where the water on the outside of the can comes from.)**



# Academic language: Condensation



# Quiz, Quiz, Trade

1. Where did the water on the outside of the frozen bottles come from?
2. How is this similar to the bromine tube from yesterday?
3. Why did water form on the cold bottles, but not the room-temp bottles?
4. How did the ice in the bottles cause water in the air to form drops of water?



# Open Ended Question

The important thing from today's lesson is \_\_\_\_\_ and the most important thing I learned is \_\_\_\_\_