

GLOW STICK LAB

Name:

Partner's name:

Question: Does temperature affect the brightness of a glow stick?

Materials: 2 glow sticks (same size, brand)



2 clear containers (beakers)

Warm water

Cold water



Procedure:

Step 1: Fill one container with warm water. Fill the other container with the same amount of cold water.

Step 2: Snap and shake both glow sticks to activate at the same time. Place one glow stick in each beaker.

Step 3: Observe.

Water Temperature	Observations
Cold Water	
Warm Water	

1. What is the **independent variable (IV)** in this experiment?

2. What is the **dependent variable (DV)**?

3. What form of energy is inside the glow stick?

4. What form of energy is it changed to?

Remember to keep your goggles on throughout the experiment.

5. What kind of heat transfer occurs during this experiment?

Conclusion (CER)

Claim: Temperature does does not affect the brightness of the glow stick. (Circle the correct underlined words.)

Evidence: Describe your observations in complete sentences.

Reasoning: Why do you think the glow stick in warm water is brighter?

