



How Does Fog Form?

Fog is just a cloud that forms near the ground. In this activity, you will use a bottle, ice cubes, and both hot and cold water to form fog in a bottle.

INQUIRY FOCUS Develop a Hypotheses

Procedure

1.  Fill a narrow-necked plastic bottle with hot tap water. Wait one minute, then pour out most of the water, leaving about 3 cm at the bottom. Set the bottle on top of a paper towel. **CAUTION: Avoid spilling hot water. Do not use water that is so hot that you cannot safely hold the bottle.**
2. Place an ice cube on the mouth of the bottle. Observe what happens.
3. Repeat Steps 1 and 2 using cold water instead of hot water. Observe what happens.

Materials

narrow-necked plastic bottle
hot tap water
cold tap water
2 ice cubes
paper towels
clock
metric ruler

Think It Over

- 1 What did you observe in Step 2? What did you observe in Step 3? Write a hypothesis explaining your observations.

- 2 Why was there a difference between your results using hot water and your results using cold water?

CLOUDS

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