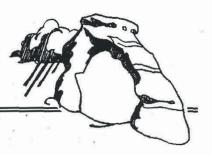
Condensation Chambers



Discussion Question:

Why does water collect on the bathroom mirror when someone takes a hot shower?



Neat Facts:

- Condensation of water vapor occurs when a mirror appears to fog up when someone takes a shower.
- Condensation also occurs when chilled car windows fog up on the inside.

Create your own condensation chamber by following the steps below.



Materials:

2 clear plastic cups tape 1 graduated cylinder water

Assembly Steps:

Step 1: Write your name or group number on the cup.

Step 2: Measure 20 ml (2 tbsp.) of water and add it to one cup.

Step 3: Place the second cup upside down over the first cup as illustrated.

Step 4: Use tape to connect the two cups.



Condensation Data Collection

Draw the chamber just after closing with tape:

Draw the chamber after 24 hours:

Draw the chamber after it has been sitting in a sunny location for 1-3 hours:

Explain what you think happened by answering the following questions. Include the following words in your discussion: temperature, evaporation, and condensation.

Is heat a factor in making the condensation chamber work? How?

How does the sun affect the chamber?

What do you think happens to the chamber at night?

If the temperature is warmer or colder on one side of the chamber than the other, what happens?