

Evaporation

Materials Needed: 3 jars (of similar size) with lids, marker, ruler, paper

Questions for the Scientist:

1. How does evaporation occur?
2. What conditions are necessary for water to evaporate?

State Your Hypothesis: _____

Procedures:

1. Select three jars or containers similar in size.
2. Pour the same amount of water into each jar. Label each jar 1, 2, and 3.
3. With a marker make a line on each jar to indicate the water level.
4. For the first jar, tightly secure a lid. For the second jar, partially cover the top of the jar with a lid. For the third jar, do not cover the top of the jar.
5. Set the jars aside and leave them overnight.
6. Check the jars the next day and measure the water level of each jar.
7. Record any changes in the water levels. Also record any condensation you see.

Key Questions:

1. Explain if and how evaporation occurred in each of the three jars.
2. What do the different treatments you developed tell you about evaporation?
3. How might the results have been different if the temperatures surrounding the jars were different?

Results and Application:

After studying your results, what conclusions can you draw? Do your results support your hypothesis? Explain your reasoning.