

Evaporation Investigation

(Lesson 3 page 46)

Purpose: (Why are you conducting this investigation?)

To determine how temperature affects the rate of evaporation.

Question: (What are you trying to find out?)

Will warm water evaporate faster than cold water?

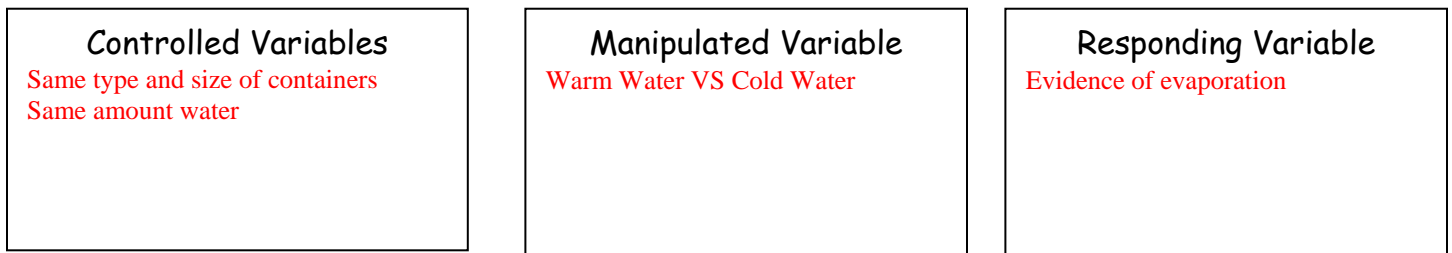
Hypothesis: (Prediction)

I think that warm water *will* *will not* evaporate faster than cold water.

Materials:

1. cold water
2. warm water
3. 2 large cups
4. 2 small cups

Diagram:



Procedure:

1. Fill one small cup with very warm water.
2. Fill the other small cup with cold water.
3. Put one large cup over each small cup.
4. Observe the cups to see which water evaporates faster.
5. Remember that condensation is proof of evaporation!

Data: (What Happens)

After 5 minutes record what each cup looks like.

Cold Water

Warm Water

Conclusion: (What you learned)

My hypothesis was *proven disproved* because the **warm** water evaporated faster than the **cold** water. After 5 minutes the cup over the cold water was **clear** and the cup over the warm water **had water droplets**. Condensation on the inside of the cup indicates that *evaporation precipitation* has taken place.

***When the drops fall that is precipitation.**

Discussion: (Use what you found out to answer other questions)

Will water evaporate more quickly on a sunny day or on a cloudy day? Why?

Water will evaporate more quickly on a sunny day than a cloudy day. Sunny days are typically warmer than cloudy days.