

Name _____

Happenin’ Heat - Cup Capers

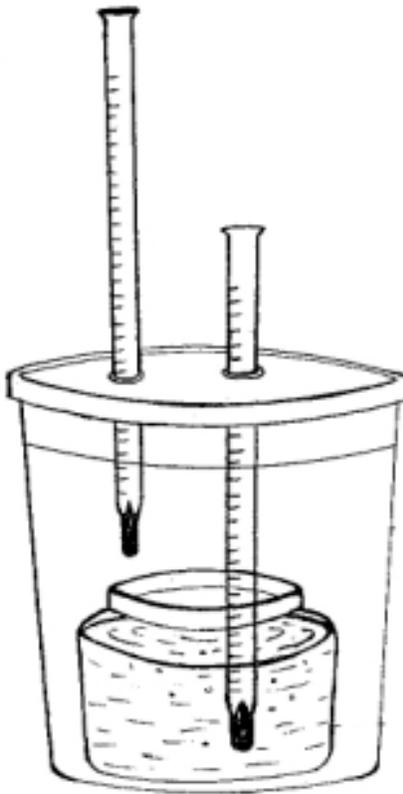
My Procedure

1. Fill the baby food jar nearly full with very warm water. Put the baby food jar lid with the hole in it on the jar. Carefully put the whole thing into the foam cup. Insert one thermometer through a hole in the foam cup lid and into the baby food jar. Record the temperature of the water in the baby food jar.

Temperature of hot water in baby food jar _____

2. Place the other thermometer through the other hole in the lid of the cup. Make sure it is not touching the jar, but rests in the air inside the cup. Put the lid on the cup. Record the temperature of the air inside the cup.

Temperature of air in foam cup: _____



3. Once the lid of the foam cup is secured with both thermometers — one in air and one in water — begin timing. You will record these two temperatures every two minutes on the table.

4. Based upon your experience with heat transfer between liquids in the bags, what is your prediction about future temperature changes of the hot water in the baby food jar and the air in the foam cup?

5. Continue recording both temperatures until your teacher tells you to stop.

My Observations

Location	Beginning temperature	2 minutes	4 minutes	6 minutes	8 minutes
Air					
Water					

My graph of _____

Draw a graph of the temperature changes. One axis should be time (two-minute intervals). The other axis should be temperature. Use different colors to show the temperatures of both the water (Color #1) and the air (Color #2) on the same graph.

My Conclusions

1. What happened to the air temperature and the water temperature? _____

