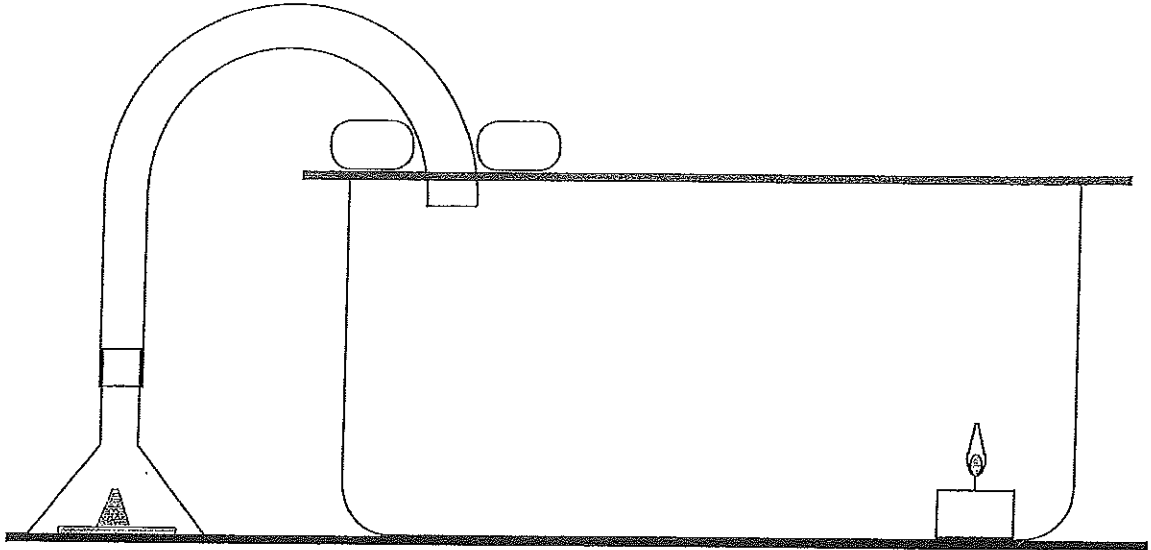


Name _____

Period _____ Date _____

CONVECTION CHAMBER

Part 1: Draw what you observed in the convection chamber.



Part 2: Think about convection.

1. Explain how convection occurs in a convection chamber.

- The lit incense created smoke, which _____ through the tube, because the smoke was _____.
- As the smoke passed through the area near the ice the smoke got _____, became _____ dense and _____.
- The _____ smoke moved across the bottom of the container, and near the lit candle.
- The lit candle _____ the smoke, making the smoke _____ dense than the air around it, causing the smoke to _____.
- When the smoke got to the top of the container, some of the smoke left through the hole at the top of the container and some of the smoke moved across the top of the container.
- Eventually the smoke got close to the ice end of the container, where the smoke _____ down, became _____ dense and _____, starting the process all over again.

2. Explain heat transfers in a convection cell on Earth.

- _____ heats Earth's surface, both land and water.
- The air above the surface is heated by _____ and reradiation from the surface
- The warm air _____, becomes _____ dense.
- Cooler air _____ and pushes the warm air _____.
- As _____ air rises (away from the heat source), the molecules _____, and the air _____.
- The air contracts and becomes _____ dense.
- The dense air _____ towards Earth's surface where it can be _____ again, starting the cycle over.