

Name:

Date:

Experiment #: 38D – Heating and Cooling of Land

Materials: Watch video of this experiment to complete this record.

- glass pyrex pie dish
- sand in pitcher, graduated cylinder, and funnel
- thermometer
- hot plate
- hot pad and two oven mitts
- clock or timer

Procedure:

1. Put the glass dish on the hot plate.
2. Fill the dish with exactly 500ml of sand.
3. Place the thermometer in the glass dish, with its gauge on the edge of the dish.
4. Plug in the hot plate and turn it on high until it reaches 200°F; record your observations every 5 minutes from the moment heat is turned on.
5. Turn off the hot plate and unplug it; record your observations every 5 minutes from the moment heat is turned off until it reaches room temperature again.

Hypothesis:

Observations (Draw):

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Observations (Write):

- How long did it take for the sand to reach 200°F when heat was turned on?

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- How long did it take for the sand to reach room temperature when heat was turned off?

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Conclusion:

New Experiment with One Altered Variable:

Variable:

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Hypothesis:

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Observations:

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Conclusion:
