Names:_____

Heating Things Up With Ice Cream

Data Record Sheet

Learning Targets:

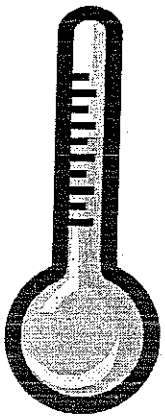
- **I can compare and contrast endothermic and exothermic reactions.**
- **I can formulate a questionable hypothesis.**
- **I can conduct a controlled experiment including the collection of sufficient and relevant data.**
- **I can analyze data, draw a valid conclusion, and communicate the findings of a scientific investigation.**

Hypothesis: _____

_____

Procedure: Found on "Ice Cream Recipe and Directions" handout.

Time:	Temperature:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____



Use graph paper to graph change in temperature versus time.

Conclusion: _____

_____

_____

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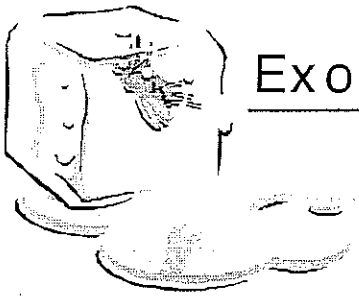

Exothermic or Endothermic?

Decide whether each of the following reactions is exothermic or endothermic. Use of the Web, your textbook or other resource books is permitted in order to research your answers. List the items under the correct column heading below.

1. **Melting ice cubes**
2. **Rusting iron**
3. **Baking bread**
4. **Condensation of rain**
5. **Production of sugar in photosynthesis**
6. **Evaporation of water**
7. **Freezing ice cubes**
8. **A candle flame**
9. **Burning sugar**
10. **Cooking an egg**

Exothermic Process	Endothermic Process

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