

Pre-Lab Information

Purpose	Explore the process of thermal energy transfer using a laboratory procedure.
Time	Approximately 45 minutes.
Question	How do mass and type of material affect thermal energy transfer?
Hypothesis #1	Different masses will change temperature at different rates when exposed to the same amount of thermal energy. This is because the amount of mass affects an object's ability to absorb thermal energy.
Variables	<i>Independent Variable:</i> mass of the substance <i>Dependent Variable:</i> amount of heat absorbed <i>Controlled Factors:</i> type of substance, initial temperature
Hypothesis #2	Different materials will change temperature at different rates when exposed to the same amount of thermal energy. This is because each substance has its own specific heat.
Variables	<i>Independent Variable:</i> type of substance <i>Dependent Variable:</i> amount of heat absorbed <i>Controlled Factors:</i> mass, initial temperature
Summary	In Part I of the experiment, students will determine how changing the mass of a given material affects thermal energy transfer by observing the amount of heat absorbed, as indicated by a temperature change. Students will also compare how different materials transfer and absorb thermal energy, and provide qualitative observations on their experimental results. In Part II, students will explore how different materials of the same mass, such as aluminum, steel, and lead, transfer different amounts of thermal energy. Then, the specific heat capacities of these three substances will be calculated and compared, using the equation below.

$$c_{\text{metal}} = \frac{c_{\text{water}} m_{\text{water}} \Delta T_{\text{water}}}{m_{\text{metal}} \Delta T_{\text{metal}}}$$

Safety

- Always wear a lab coat, gloves, and safety goggles when performing an experiment. Wearing gloves is very important when handling metal samples, especially lead if used.
- Behavior in the lab needs to be purposeful. Use caution when heating and cooling substances.
- Use the right gear, such as tongs and thermal mitts, to handle hot objects.
- Check glassware, such as beakers and flasks, for cracks and chips prior to use.
- Report all accidents—no matter how big or small—to your teacher.

Thermal Energy Notetaking Guide

Clifford Lane



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