

Introduction for Module 8 – Thermochemistry

Textbook: [Open Stax Chemistry 2e](#)

Suggested Reading: Chapter 5.1-5.3

Learning Objectives:

- **Distinguish between heat (a transfer of energy) and Temperature (a property that measures the average energy of the particles in an object)**
- **Calculate the change in temperature of an object based on an increase or decrease in energy**
- **Apply the principles of conservation of energy to calculate changes in energy (calorimetry)**

Captions and Attributions:

- 1) Total heat capacity (aka. "heat capacity", in comparison to specific heat capacity) varies with object size. Total heat capacity is often used for objects composed of multiple materials, such as a calorimeter. [Figure 5.8, Because of its larger mass](#) by [Open Stax](#) is licensed under [CC BY 4.0](#).
- 2) All substances require different amounts of energy to increase their temperature, which is quantified as the specific heat capacity. [Table 5.1, Specific Heats of Common Substances](#) by [Open Stax](#) is licensed under [CC BY 4.0](#).



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