

## Building Science: Intermediate Level

**Objectives:** As a result of this lesson, students will learn how the parts of a building work together as a system to provide a safe, healthy, comfortable, and energy efficient environment for its residents.

Residential and commercial buildings consume a lot of energy. The people inside of the buildings are an influential factor in how energy is consumed but the building design and components can also play a major role. Through a series of hands-on investigations, students will explore how heat transfers into and out of a system. They will also learn how to conduct a home energy audit and will use what they learn to design an energy efficient home.



**This kit includes:**

- Infrared (IR) thermometers
- Stackolators
- Unscented incense sticks
- Mini-blower door
- Insul-boxes
- Kill-A-Watt monitors
- Digital humidity/temperature pens
- Probe thermometers
- Student Guides

\*To replenish any materials used, lost or broken during classroom use, check craft, hardware, or hobby stores. For more information or to purchase this kit, visit [NEED.org](http://NEED.org)