



# Green Building

# STEM Sims

## Lesson 1: Going Green

Designing buildings that use less energy and fewer natural resources is one of the hallmarks of green engineering. Some building structures designed using green principles do require higher initial costs; however, long-term lower operating costs and a safe environment are often realized by building owners. Can you identify green features in a building?

### Doing the Science

1. Start the Green Building Simulation by clicking on the “Sim” tab.
2. Follow the on-screen instruction to visit all eight green features in the building. Make sure to note and record in Table 1 relevant information.

**Table 1. Green Features**

Green Feature	Description	Energy/Resource Savings

### Do You Understand?

1. Which green feature of the building gave the greatest energy and/or natural resource savings?
  
2. What were the total energy and natural resources savings for all of the green features in the building? If possible, calculate the possible total dollar savings as a result of the building’s green features.