

## Hand2Mind STEM in Action Solar House Design

**Objectives:** As a result of this activity, students will design, build, test and redesign models of passive solar homes for the Solar House Design Challenge.

The Solar House Design kit allows students to learn about energy conversion as they work in teams to make budget decisions about windows and flooring material in a home design. They build a passive solar house model to test, analyze, and redesign using the engineering design loop. Find out more at:

<http://www.hand2mind.com/item/hands-on-standards-stem-in-action-solar-house-design-challenge/1444#sthash.BwtiNz6f.dpuf>

**This kit includes:**

- Student Activity books
- Teacher Guide
- Clip-on lamps and shades
- Lamp stands
- Light bulbs, 150W incandescent
- Digital thermometers
- Timer
- House kits, foam-core
- Brick tiles
- Light tiles
- Slate tiles
- Transparencies, square and rectangular



**NOT included:**

- Scissors
- Rulers
- Clear tape
- Masking tape
- Black or colored markers
- Protractors

\*Any materials that are lost or broken during classroom use must be replenished before being returned. Items can be bought from Hand2Mind.