

CREATEKIT™

Shelter Lesson Directions Overview

Equipment List

- 100 Cardboard Sheets (8" x 10")
- 25 Foam Sheets (8-1/2" x 11")
- 12 Felt Sheets
- 1 Roll Bubble Wrap
- 2 Rolls Duct Tape
- 2 Glue Guns
- 24 Glue Sticks
- 2 Heat Lamps
- 2 Heat Bulbs
- 4 Thermometers

Learning Objectives

1. Students will identify and implement the steps of the engineering design process as they work in groups to build an insulated shelter.
2. Students will use an iterative process to test and make adjustments to their design to improve function.

Grade Levels: Upper Elementary and up

Vocabulary Covered

- Insulation
- Convection
- Conduction
- Reflection

NGSS Topics Addressed

- Engineering Design
- Energy
- Waves: Light & Sound

CCMS Topics Addressed

- Data & Measurement