

Building Construction



Description

Learning as they build, students follow the process of constructing a scale model of a storage shed, which includes framing the side walls, building a back wall and covering it with sheathing, framing and sheathing window walls, and completing the door wall. The students then put all of the walls together, set the roof trusses, soffits, fascias, and sheathe the roof. Students will also find plenty of highly useful construction information—such as the kinds, sizes, and grades of lumber available—as well as fascinating histories and facts about significant building structures.

Skills

- Read and interpret blueprints
- Calculate the number of sheathing sheets that are needed for a roof deck
- Demonstrate how a building is anchored to a concrete slab
- Assemble a scale model of an 8' by 12' storage shed

Knowledge

- Truss roof systems
- Safe working procedures on a construction site
- Proper use of hand tools in the building construction trades
- Techniques to conserve materials and supplies in frame building

Activities

- Activity 1 - Introduction
- Activity 2 - Side Wall Framing
- Activity 3 - Back Wall Framing with Sheathing
- Activity 4 - Window Wall Framing with Sheathing
- Activity 5 - Door Wall Framing with Sheathing
- Activity 6 - Assemble the Walls and Attach to the Concrete Slab
- Activity 7 - Setting the Trusses
- Activity 8 - Attaching Soffits and Subfacia Boards
- Activity 9 - Roof Sheathing
- Activity 10 - Post-Test and Wrap-up
- Activity 11 - Bonus Activities
- Activity 12 - Challenge
- Activity 13 - Open-Ended Challenge
- Activity 14 - Careers
- Activity 15 - Internet

Standards

Math/Measure Science Problem Solving Reading

Module Includes:

DEPCO Building Construction Student Activity Guide, DEPCO Building Construction Templates, Building Construction Tool Kit, Pre-Cut Building Kits (4)

Requirements

The Building Construction module includes four building kits. These kits will be reused as many as 10 times. A building kit will need to be purchased for each additional class.

Replenish kits are available to replace common components without replacing the entire kit.

The Building Construction storage cabinet must be shipped as LTL freight because of the crated size and weight.

Curriculum Specifications

Format 2000. The Building Construction curriculum consists of a well-illustrated student activity guide with 10 daily activities and 5 additional enrichment activities including careers, problem solving, challenge activities, vocabulary reinforcement, and Internet.

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