

Residential Construction

Academic Representative



Technology Education Concepts

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Description

In Residential Construction, students build a model size of the corner of a house using our exclusive construction kit complete with tools, materials, and procedures. First, the foundation, where students learn about the components of a sill plate, foundation header, and support beam, as they put them in place. Next, they build platform framing, which includes setting floor joints, measuring bridging, and adding sheathing. Then, students add exterior, interior walls, and roofing. Each major step involves reading a framing schedule and building plan as well as measuring, cutting, and attaching a variety of pieces.

Skills

- Demonstrate proper layout of soffets and trusses
- Use proper techniques for rough framing
- Assemble walls, trusses, rafters, and roofs
- Construct platform box sills

Knowledge

- Functions and kinds of construction tools and materials
- Importance of residential construction
- Safe construction procedures
- Platform construction

Activities

- Activity 1 - Introduction
- Activity 2 - Foundations
- Activity 3 - Residential Platform
- Activity 4 - Exterior Walls
- Activity 5 - Exterior Walls: Continued
- Activity 6 - Interior Walls
- Activity 7 - Roof Systems
- Activity 8 - Roof Decking
- Activity 9 - Disassemble the Model
- 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 Problem Solving Reading

Module Includes:

Student Activity Guide, DEPCO Residential Construction Workcenter, Residential Construction Tool Set, Bandsaw, Building Foundation (5), Residential Building Kit (5), Video Set, Nail Gun, Cordless Power Drill, Safety Glasses (2)

Supplies are required and sold separately.

Requirements

Construction materials supplied with module is sufficient for 3 classes. A class setup will be required for each additional class period. The Residential Construction storage cabinet must be shipped via LTL truck because of the crated size and weight.

Curriculum Specifications

Format 2000. The Residential 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.