

# Residential Wiring

Academic Representative



Technology Education Concepts

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## Description

Students start this curriculum with a complete safety and hand tool orientation and then they become familiar with the Student Wiring Panel, our specialized residential wiring kit. They begin by installing and wiring the service entrance, ground rod, and service panel before installing and wiring a dizzying array of items such as: circuits, breakers, junction boxes, convenience outlets, ceiling lights, wall switches, additional junction boxes, a 220-volt outlet, doorbell, and a 3-way switch. Lastly, National Electrical Code (NEC) information, units of electricity, and accurate calculation of electric usage are some of the final components that help to produce this exciting DEPCO curriculum.

## Skills

- Ground wiring in a home
- Diagram the wiring in a home
- Properly wire electrical components
- Install a doorbell
- Wire a light switch and a convenience outlet

## Knowledge

- Safe residential wiring procedures
- Proper installation of an electrical panel
- Proper mounting of electrical components
- Different kinds of electrical components

## Activities

- Activity 1 - Introduction
- Activity 2 - Service Entrance, Ground Rod, and Service Panel
- Activity 3 - Circuit Breakers and Junction Boxes
- Activity 4 - Convenience Outlet
- Activity 5 - Ceiling Lights and Wall Switch
- Activity 6 - Wiring a Second Junction Box
- Activity 7 - 220 Volt Outlet
- Activity 8 - Wiring a Doorbell
- Activity 9 - Wiring a Three-Way Switch
- 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 Wiring Workcenter, DEPCO Student Wiring Panel, Pre-Cut Wiring Kit, Instructor Wiring Supply Packet, Electrical Tool Kit, Residential Wiring Component Kit

## Requirements

A student wiring panel will need to be purchased for each additional class. One wiring panel is included with Residential Wiring module.

The Residential Wiring storage cabinet must be shipped via LTL truck because of the crated size and weight.

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## Curriculum Specifications

Format 2000. The Residential Wiring 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.