



# INSIDE:

RESHAPING WORK

## Electrician

Career Exploration Curriculum Guide  
Construction Technologies | Grades 3-5

Electricians are skilled tradespeople who install, maintain, and repair electrical systems in homes, schools, businesses, and public buildings. They are part of the Construction Technologies career pathway, which also includes plumbers, HVAC technicians, and carpenters.

**LEARNING GOAL:** Explore the world of work to expand your skills and interests through future career opportunities.

### BEFORE YOU WATCH

Ask students to share their answers to these questions.

- What do you already know about electricity and how it works?
- Where do you see electricity used every day?
- What jobs in your community depend on electricians?

### AFTER YOU WATCH

- What kinds of work does the electrician do? What tools do they use?
- What safety steps do you notice? What do you think could happen without those rules?
- What problems does the electrician fix? How do they figure out solutions?
- Where does the electrician work? Did any of those locations surprise you?



**Watch:**

[The Electrician | I Can Be What?!](#)



**WOSU**  
classroom

## HANDS ON ACTIVITY

### Watch:

[Light It Up! Chip Kids](#)



### Materials:

- 1 AA battery
- 2-D batteries
- aluminum foil
- 1 small light bulb
- tape
- scissors



### Steps:

1. Predict: Write your prediction. Do you think the bulb will light up?
2. Build Circuit 1: Connect one foil strip from the bottom of the AA battery to the base of the bulb. Connect a second strip from the top of the battery to the side of the bulb.
3. Observe: Did the bulb light up? Was your prediction correct? Write down what you see.
4. Switch Batteries: Replace the AA battery with a D battery. Observe any change in brightness.
5. Add a Second Battery: Add a second D battery in line with the first. Connect the negative end of one to the positive end of the other. Record what happens.
6. Break the Circuit: Disconnect one foil strip so the path is incomplete. What happens to the bulb? This is called an open circuit.

### Chat About It

- What happens when the circuit is open compared to when it is closed?
- Did the bulb change when you switched from the AA to the D battery?

## EXTEND YOUR LEARNING

Additional PBS Learning MediaVideos

- [Electrician-A-Z Career Lab](#)
- [Construction Trades: Careers in Demand](#)
- [Electric Circuits](#)
- [Electricity](#)

Ohio Career Exploration

- [Ohio Means Jobs for Students](#)

Play THE WILD KRATTS GAME!

**EEL-ECTRIC  
CHALLENGE!**

