

# Lesson 3 Describing Circuits

**Predict** three facts that will be discussed in Lesson 3 after reading the headings. Record your predictions in your Science Journal.

## Main Idea

### Parts of an Electric Circuit

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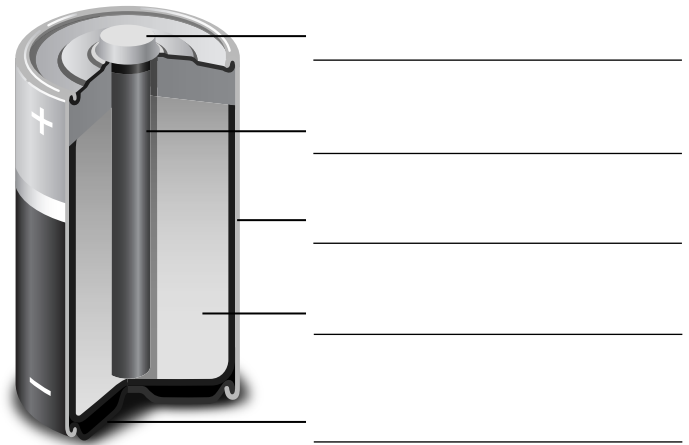
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### Series and Parallel Circuits

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## Details

**Identify** the parts of a battery. Specify the two parts that are electrically charged.



**Express** roles of the basic parts of an electric circuit.

Energy source	→	
Electric device	→	
Wires	→	

**Compare and contrast** the definitions of series circuit and parallel circuit.

Series	Both	Parallel

## Lesson 3 | Describing Circuits (continued)

### Main Idea

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I found this on page \_\_\_\_\_.


### Details

**Evaluate** whether you would rather decorate with a strand of lights wired in series or in parallel, and why.

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 **Model** the 2 types of circuits.



Parallel Circuit



Series Circuit

1. Draw wires to complete each type of circuit.
2. Draw arrows to show the flow of electric current.
3. Explain what happens if you make one opening...
  - A. in the parallel circuit on either side of the top bulb;

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- B. in the parallel circuit at the source of electric charge on either side;

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- C. anywhere in the series circuit. Show this above.

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## Lesson 3 | Describing Circuits (continued)

### Main Idea

#### Electric Circuits in the Home

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#### Electric Safety

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### Details

**Describe** parts of home electrical circuits.

Part	Description
Power plant	
Transmission cables	
Main wire	
Electric meter	
Main panel with circuit breakers or fuses	

**Explain** what causes an electric shock.

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**Record** three ways to protect yourself from electric shock.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_



**Connect It** Why would you not want the electric current in your home to flow through one big series circuit nor one giant parallel circuit?

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