

5th Grade Science Study Guide

Science Passage

ELECTRICITY & CIRCUITS

SCIENCE IN READING – READ, THINK, APPLY

1. Understand: How Does Electricity Flow and Power Devices?

Electricity is a form of energy that powers lights, tools, and machines. For electricity to flow, it needs a complete path called a **circuit**. If the path is closed, the electricity flows. If the path is open or broken, the electricity stops. Materials like metals are good conductors because they let electricity pass through easily. Materials like **rubber** and **plastic** are insulators. They block the flow of electricity.

We use electricity every day, and it doesn't stay the same. It can be **transformed** into other forms of energy, like light in a lamp, heat in a toaster, or motion in a fan. There's also another type of electricity called **static electricity**. It happens when electric charges build up on objects. You might feel this when you rub your feet on carpet and touch a metal doorknob.

Electricity can even create magnetism. When current flows through wire wrapped around an iron object, it creates a **magnetic field**. This is called an **electromagnet**, and it's useful in things like electric bells and cranes.



Static Electricity

Check Your Understanding

1. What materials allow electricity to flow easily? What materials block it?	2. A student builds a circuit with a battery, bulb, and wire. The bulb doesn't light up. What is one reason why?	3. A fan is plugged into the wall and begins to spin. What type of energy flows from the fan's cord, and what type of energy does it produce?
	A. The circuit is closed. B. The wire is made of metal. C. The circuit is open. D. The battery is new.	

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Practice Questions

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STUDENT PRACTICE

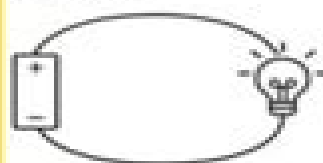
Which material is a good conductor of electricity?

- A. Plastic
- B. Steel
- C. Copper
- D. Rubber

Which of the following best describes a closed circuit?

- A. Electricity flows because the path is complete.
- B. There is a break that stops electricity.
- C. The wires are made of plastic.
- D. Electricity flows through an insulator.

Look at the diagram of a simple circuit. Label the parts.



Write/Draw
Power Source
Wire
Bulb

4. Match each word to its meaning.

Mechanical (movement)	
Thermal (heat)	
Radiant (light)	

- A. Lamp
- B. Fan
- C. Toaster

5. What is static electricity? Give one real-life example.

6. What is an electromagnet, and how can you make one?

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Real-world science reading passages * Full-color diagrams and models * Study tips and tracking tools * Answer key included

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