

## Core Skills Analysis

### Science

- The student learned about the flow of electricity and how circuits allow electricity to move from one point to another.
- By building the circuit, the student gained an understanding of how switches can control the flow of electricity in a circuit.
- The activity helped the student comprehend the concept of closed and open circuits, exploring what happens when a circuit is complete or broken.
- Through the experience, the student grasped the basic components of an electrical circuit, such as batteries, wires, bulbs, and switches.

### Tips

For continued development after building a basic electrical circuit, encourage the 8-year-old student to experiment with different types of switches or add more components to the circuit to see how it affects the flow of electricity. Consider introducing parallel and series circuits to expand their understanding of circuit configurations. Additionally, exploring the use of resistors or capacitors in circuits can deepen their knowledge of controlling electrical flow. Encouraging the student to research and build more complex circuits can enhance their problem-solving and critical thinking skills.

### Book Recommendations

- [Electronics for Kids: Play with Simple Circuits and Experiment with Electricity!](#) by Oyvind Nydal Dahl: This book offers hands-on projects to introduce basic concepts of electronics through fun experiments, perfect for young learners interested in building circuits.
- [Circuit Science Projects for Elementary and Middle School Students](#) by Max Axiom: A book filled with engaging projects that teach students about circuits, electricity, and electronics in an accessible way, ideal for 8-year-olds looking to expand their knowledge.
- [My First Book About Basic Electricity](#) by Pamela Chanko: An introductory book that covers the fundamental principles of electricity, making it easy for young readers to grasp essential concepts related to electrical circuits.