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## Lesson Plans

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## Two Button Buzzer Circuit

[Download Full Lesson Plan](#)

(Full teacher resource documents are included)

**Lesson Focus**

Demonstrate how two switches interact in an electrical circuit such as that used to sound a buzzer. Note: This lesson plan is designed for classroom use only, with supervision by a teacher familiar with electrical and electronic concepts.



**Lesson Synopsis**

The Two Button Buzzer Circuit activity explores an everyday situation, where either of two or more buttons can ring a buzzer. Students learn how this type of circuit is structured, draw a schematic for it, and construct a two button buzzer model out of wires, a battery, buttons (switches), and a buzzer.

**Age Levels:** 8-14

**Objectives**

- Learn how switches control the flow of electricity.
- Learn to draw basic wiring diagrams. Learn about teamwork and working in groups.

**Anticipated Learner Outcomes**

As a result of this activity, students should develop an understanding of:

- switches
- circuits and current
- basic electrical diagrams

- making and testing predictions
- teamwork

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### Lesson Activities

Students learn how two buttons (switches) can control a buzzer. Student groups then draw a schematic of a two button buzzer circuit and build a model of the circuit using wires, a battery, buttons (switches) and a buzzer. Final schematics are shared with other groups, with results and findings discussed as a class.

### Resources/Materials

- Teacher Resource Documents (attached)
- Student Worksheets (attached)
- Student Resource Sheets (attached)

### Alignment to Curriculum Frameworks

Curriculum alignment sheet is included in [PDF](#).

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