

Use a simple circuit to create a quiz that lights up with the correct answer.

MATERIALS

- ½ sheet card stock
- Hole punch
- Pen
- Aluminum foil
- Masking tape
- 2-AA batteries
- 5 mm LED bulb

METHOD

1. Think of three questions and answers. (e.g. math problems, vocabulary definitions, anatomy descriptions)
2. Draw a line down the center of the card stock. Label the left side "Questions" and the right side "Answers" at the top.
3. Punch three holes each along the edges of the card stock so there are three holes on either side of the line.
4. Write one of your questions next to each hole on the left side of the card stock; write the answer to each question in random order next to each hole on the right side of the card stock.
5. Cut three thin strips of aluminum foil (thinner than the width of your masking tape).
6. Flip the card stock over and connect each question to the correct answer by placing one end of the aluminum foil strip over the question hole and the other end over the corresponding answer hole. Cover all parts of the foil with masking tape.
7. Repeat for the remaining questions and answers. Make sure that each strip of aluminum foil touches no other strip; add more masking tape as necessary.
8. Turn card stock back over so the quiz is facing up.
9. Place two batteries negative terminal to positive terminal and use masking tape to secure the connection

TAKE IT BACK TO CLASS

- Reverse the challenge: Add materials to lower friction on the ramp so your car goes as fast as possible. What are some materials you might use on your ramp to increase the speed of your car?

SOURCE

[“STEM Challenges, Grades 2-5” from Carson Dellosa Education](#)

NOTES

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