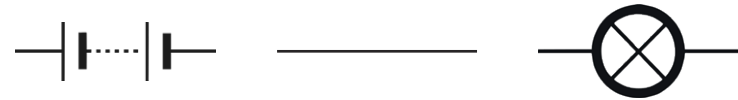


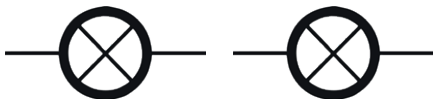
Circuits Challenge Cards

Draw a simple circuit with the symbols for battery, conductor, and light bulb.



Circuits Challenge Cards

Draw a parallel circuit with the symbols for battery, conductor, and light bulb. Include at least two light bulbs.



Circuits Challenge Cards

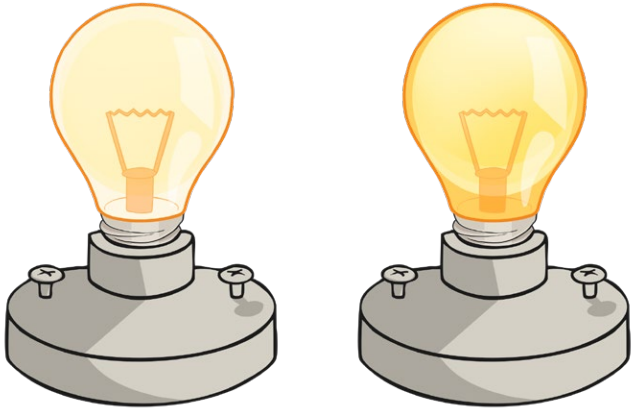
Draw a series circuit with the symbols for battery, conductor, and light bulb. Include at least three light bulbs.



Circuits Challenge Cards

4

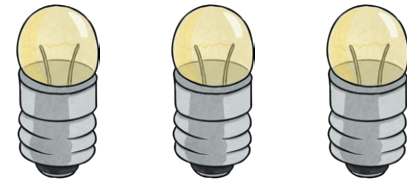
How could you make the light bulb in a simple circuit brighter?



Circuits Challenge Cards

5

If you use three light bulbs instead of one light bulb in the same circuit, what will happen to the light bulbs? Why?



Circuits Challenge Cards

6

What everyday objects could you use as a conductor?



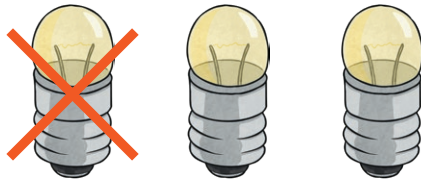
Circuits Challenge Cards

7

What everyday object could you use to make a switch?

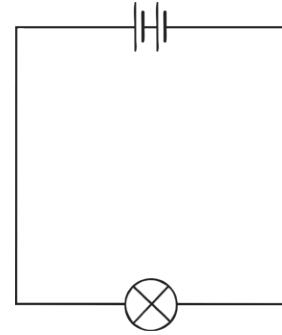


If the first light bulb in a series circuit breaks, what will happen to the others? Why?

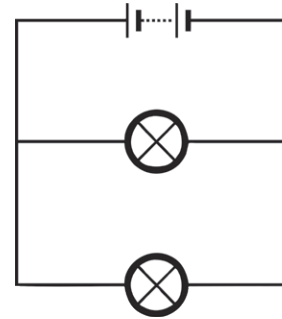


Circuits Challenge Cards **Answers**

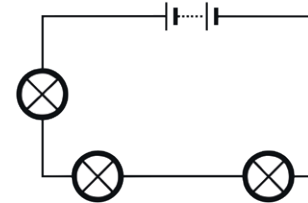
1.



2.



3.



4. **You could use another battery or a higher voltage battery.**

5. **The lights would be dimmer because the electricity would be shared by all of them.**

6. **You could use foil or paper clips.**

7. **You could use a clamp or paper clips.**

8. **The next light bulbs would not light up because the broken light bulb would cause an open circuit.**