YEAR 6 SCIENCE

Electric Circuits

Build and explain simple circuits, conductors and insulators

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Name: _____ **Date:** _____ **Score:** _____ / 11

Choose the best answer.

1. What does a circuit need for a bulb to light up?
   (a) a broken wire (b) only a bulb (c) a complete loop and a power source
2. What does a switch do?
   (a) changes the colour of the light (b) opens or closes the circuit
   (c) makes the battery bigger
3. In a simple series circuit, if one bulb breaks, the other bulbs...
   (a) go out (b) get brighter (c) stay the same
4. What provides the energy in a torch?
   (a) the battery (b) the switch (c) the plastic case

Is each material a conductor or an insulator of electricity?

5. copper wire
   (a) conductor (b) insulator
6. plastic
   (a) conductor (b) insulator
7. aluminium foil
   (a) conductor (b) insulator
8. rubber
   (a) conductor (b) insulator
9. a steel key
   (a) conductor (b) insulator
10. dry wood
    (a) conductor (b) insulator

Write your answer.

11. Why are electrical wires covered in plastic?

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Choose the best answer.

1. c) a complete loop and a power source
2. b) opens or closes the circuit
3. a) go out
4. a) the battery

Is each material a conductor or an insulator of electricity?

5. a) conductor
6. b) insulator
7. a) conductor
8. b) insulator
9. a) conductor
10. b) insulator

Write your answer.

11. Plastic is an insulator, so it stops electricity from reaching us and keeps us safe.

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