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| Year Group: | 4 | Subject: | Science |
| Term: | Autumn 2nd Half | Topic: | Electricity |

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| Links to Previous Learning |  | What you should know: |
| Name some appliances that use electricity. |  | Name common appliances that run on electricity.  |
| Know what a light bulb is. |  | Make a simple series electrical circuit and be able to name its basic parts, including cells, wires, bulbs, switches and buzzers. |
| Know what a battery is (cell) |  | Know whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. |
| Know what a switch on an electrical device is. |  | Know that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. |
| Know it is dangerous to get anything electrical wet. |  | Know some common conductors and insulators, and know metals are good conductors. |

**Key Fact:** voltage measures the power of electricity. The higher the voltage, the more electricity that is flowing.

High voltage is very DANGEROUS

When is a circuit complete/ incomplete?



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| Key Vocabulary |
| cell | one or more cells make a battery. |
| circuit | a path which allows electricity to flow |
|  mains electricity | electricity provided form a socket; transported between the building and the power station |
| insulator | a material that does *not* let electricity pass through it (easily) |
| conductor | a material that *does* let electricity pass through it  |

**At home:**

Find and compare the voltage of different electrical appliances in your home.

Can you make an electrical circuit using a fruit or vegetable?