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| Year 4 Science – Electricity – Autumn 1 | | | |
| What should I already know? | What am I going to learn in this unit? | Vocabulary I need to know | |
| * I know how to work some electrical items in my home. * I know how to compare and group materials. * I know some materials that make good insulators/conductors. * I understand that energy can be used to power electrical items such as toasters, kettles, televisions. * I understand that electricity can flow from one place to another. * I know multiple items that are powered by electricity. | * I understand the function of a switch. * I know the difference between a conductor and an insulator, giving examples of each. * I can identify and name appliances that require electricity to function. * I understand the names and components in a series circuit (including cells, wires, bulbs, switches, and buzzers) * I can construct a simple series electrical circuit. * I can observe patterns in electrical circuits. * I can report my findings and link it to my knowledge of electricity. * I can predict and test whether a lamp will light within a circuit. * I can use research to find out which materials make effective conductors and insulators of electricity | Cell | An ‘electrical power supply’. Also called a battery |
| Conductor  A picture containing text  Description automatically generated | A material or device that conducts or transmits electricity. |
| A picture containing text  Description automatically generatedInsulator | A substance or device which does **not** readily conduct electricity. |
| Electricity | A form of energy that can give things the ability to move and work. |
| Electrical Circuit | A pathway that electricity can flow around. |
| Bulb | A device that produces light from electricity. Lights up in a complete circuit. |