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| Year 8: Physics - Electricity | Static electricity | I can describe how to charge an object. |  |
| I can use my knowledge of electrons to explain the process of charging an object. |  |
| I can describe the forces between electrically charged objects. |  |
| P.D & circuit models | I can describe electric current and potential difference. |  |
| I can use symbols to draw and interpret circuit diagrams. |  |
| I can use a voltmeter to measure potential difference. |  |
| Current, conductors & insulators | I can describe what an electric current is. |  |
| I can build circuits and use an ammeter to measure current. |  |
| I can explain the difference between conductors and insulators. |  |
| Series & parallel | I can build series and parallel circuits from diagrams. |  |
| I can explain how current varies around a series circuit. |  |
| I can explain How current varies around a parallel circuit. |  |
| Resistance | I can define electrical resistance. |  |
| I can describe electrical conductors and insulators in terms of their resistance. |  |
| I can use Ohm’s law to calculate resistance from current and potential difference. |  |
| Challenge circuits | I can design a circuit that can be used as a burglar alarm. |  |
| I can produce and test a circuit that acts as a burglar alarm. |  |

**8P3 Electricity**