**Electricity**

# Learning Outcomes

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| 1. | I can state the difference between conductors and insulators. |  |  |  |
| 2. | I can draw the symbols for a battery, bulb, wire, ammeter, voltmeter and switch. |  |  |  |
| 3. | I can draw and construct (build) circuits using symbols. |  |  |  |
| 4. | I can state that a current is a flow of electrons (negative charges) round a circuit. |  |  |  |
| 5. | I can state that a circuit is an electrical path around which charge can flow (current). |  |  |  |
| 6. | I can describe a series circuit as a single electrical path. |  |  |  |
| 7. | I can state that as you add more bulbs in series, the bulbs get dimmer. |  |  |  |
| 8. | I can state that as you add more batteries in series, the bulbs get brighter. |  |  |  |
| 9. | I can state that parallel circuits have more than one electrical path.  |  |  |  |
| 10. | I can state that when bulbs are connected in parallel, they have the same brightness. |  |  |  |
| 11. | I can give an advantage of house lights being wired in parallel rather than in series. |  |  |  |
| 12. | I can design circuits to show how bulbs can be switched on and off in series and parallel. |  |  |  |
| 13. | I can measure current in a circuit using an ammeter. |  |  |  |
| 14. | I can measure voltage in a circuit using a voltmeter. |  |  |  |
| 15. | I can state that voltage is a measure of the energy of the charges. |  |  |  |
| 16. | I can investigate how the design of a battery can determine its voltage.  |  |  |  |