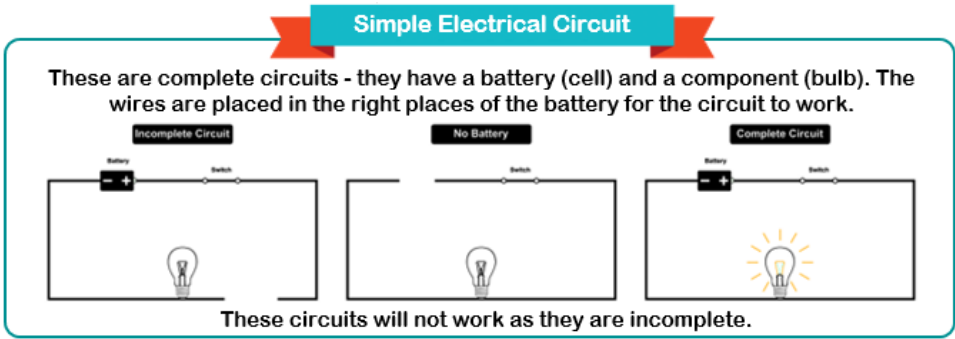


Science Knowledge Organiser - Electricity

Potential Careers - Electrician, Electrical Engineer

- L1 - Electrical Appliances and Electrical Safety
- L2 - Electrical Components in a Circuit
- L3 - Investigate Electrical Circuits
- L4 - Conductors and Insulators
- L5 - Electrical Switches
- L6 - Electrical Components That Change Within Circuits



Rocket Words

| | | |
|--|---------------|---|
| | electricity | energy that powers electrical appliances |
| | batteries | containers made of cells in which chemical energy is converted into electricity |
| | circuit | a pathway that electricity flows around |
| | voltage | the measure of electrical power |
| | current | the flow of electricity |
| | bulb | the glass case that contains the filament of an electric lamp |
| | conductor | electrical conductors are materials which allow electricity to flow through them easily |
| | insulator | materials that do not let electricity pass through them easily |
| | switch | a device which builds and breaks the connection in an electric circuit |
| | control | manage the amount of something |
| | wind turbines | a device which produces electricity using the power of the wind |
| | hydropower | a process that produces electricity using the power of water |

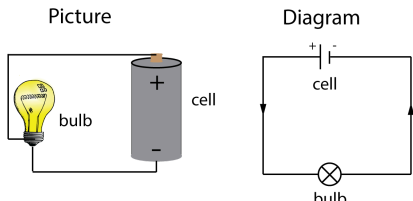
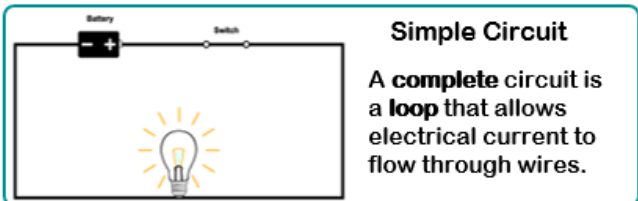
Conductors and Insulators

- Materials that allow electricity to pass through to create a complete circuit are called electrical conductors.
- Materials that do not allow electricity to pass through and do not complete a circuit are called electrical insulators.

| | |
|------------|---------|
| conductors | |
| steel | copper |
| insulators | |
| wood | plastic |

Electrical Components

- Lamp
- Switch
- Motor
- Buzzer
- Battery
- LED
- Diode
- Diode



ENERGY SOURCES

| RENEWABLE ENERGY | | NON-RENEWABLE ENERGY | |
|------------------|------------|----------------------|-------------|
| Wind | Hydropower | Oil | Coal |
| Solar | Biomass | Nuclear | Natural Gas |
| Geothermal | | | |

Scientist Study

Lewis Howard Latimer

Electronic Engineer who improved the design of Edison's light bulb and brought street lighting to the world.