


<p>Electric Circuit 101</p> 	<h2>Electric Circuits</h2> <ul style="list-style-type: none"><li>• A path that electricity can flow</li><li>• Can be open- electricity stops</li><li>• Can be closed- electricity flows</li></ul>
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<p>Voltage</p> <p>Current</p>	<ul style="list-style-type: none"><li>• how much electrical potential energy is between 2 places in a circuit</li><li>• unit of measure is volt (V)</li><li>• causes a current in an electric circuit</li><li>• comes from a source like battery or generator</li></ul> <ul style="list-style-type: none"><li>• charges flow from one place to another</li><li>• measured in amps (A)</li></ul>
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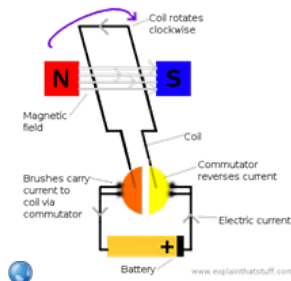
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## Resistance

- how difficult it is for the charges to flow through a material
- the greater the resistance, less current there is for a given voltage
- unit of measure is the ohm ( $\Omega$ )
- Conductors- allow electricity to flow through
- Insulators- does not allow electricity to flow through

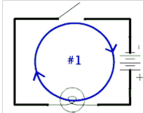
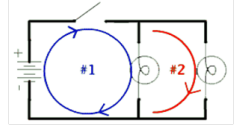
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## What energy comes from a circuit?

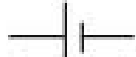

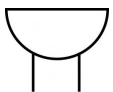
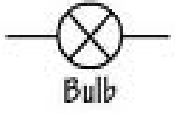

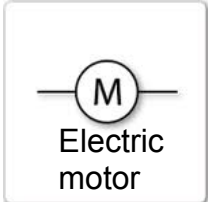


- Light energy- light bulb
- Sound energy- buzzer
- Heat energy- warm temperature like a toaster
- Mechanical motion- fan, motor or generator

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<p>What is a series circuit?</p>  <p>What is a parallel circuit?</p> 	<ul style="list-style-type: none"> <li>• Electricity flows through one path</li> <li>• If circuit is open, electricity immediately stops</li> </ul> <ul style="list-style-type: none"> <li>• Electricity flows through more than one path</li> <li>• If the circuit is open, the electricity will flow through the other path</li> </ul>
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<p>Symbols</p>	 <p>Single celled battery</p>  <p>Double celled battery</p>  <p>Buzzer</p>  <p>Bulb</p>  <p>Switch</p>  <p>Electric motor</p>
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