

Name: _____

Circuits & Conductors

To release electrical potential (power stored until it is released) and put it to work, you need a circuit. A circuit is a road or network of roads. This circuit will take the current to its place of work and back to where it came from. The word circuit means a circle, which is basically the path the current will take.

Directions: Draw an example of a circuit that may be found in your home or school. Indicate the direction the current flows.

Conductors are made of materials that make it easy for electricity to flow through in one or more direction. In a conductor, the outer electrons of the atoms are loosely bound and can move freely through the material when an electric charge is applied. The best electrical conductors are metals. Silver is the most conductive, however it is too rare and expensive to use in most electrical equipment. The most commonly used electrical conductor is copper. But some other objects act as conductors, too.

Directions: Draw or write examples of conductors and that are made of the different types of materials that best conduct electricity.