

GRADE

Name

Date

Conductors: Materials that ALLOW electricity to easily flow.

Insulators: Materials that DO NOT ALLOW electricity to easily flow.

Instructions: Based on the discussion about conductors and insulators, write a "C" next to the items you predict to be conductors of electricity and an "I" next to the items you predict to be insulators of electricity.

- ____Silly putty ____Aluminum foil ____Popsicle stick ____Yarn ___Scouring sponge ___Colored paper clip ____Spoon ____Rubber band ____Wire ___Paper clip
- ____Eraser
- ____Cotton
- ____Coins
- ____Rock

STOP HERE ... Complete remaining portion AFTER experiment

Write a sentence describing a material that surprised you as being either a conductor or an insulator.



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For a power source to light a light bulb, there must be an uninterrupted pathway. This is called a circuit.

Simple Circuit

Lesson Language

Circuit – The complete path or part of the path of an electric current. **Closed Circuit** – A complete path allowing electric current to flow. Conductor - A material that allows electricity to easily flow. **Electric Current** – A flow of electricity through a conductor (amps). Electricity – The flow or movement of charges.

Energy – The ability to do work.

Energy Efficiency – Using energy and technology wisely; using less energy to provide the same level of performance, comfort, convenience, or light.

Incandescent Bulb - Traditional or "regular" light bulb.

In-Home Energy Audit - An in-home evaluation provided to educate customers on how to make their homes more energy efficient.

Insulator – A material that does not allow electricity to easily flow.

Light-Emitting Diode – known as an "LED" – A new technology bulb that uses less energy and gives off the same amount of light as a CFL bulb.



Lumens - The brightness of a light.

Open Circuit – An incomplete path that does not allow electric current to flow.

Power – Force or energy used to do an amount of work over time.

Power Source – The origin of force or energy used to do work (ex: generator and battery).

Watt – A unit of measure for electrical power (amps x volts).

Watt Meter - Device used to measure electric power in watts.



