

Conductors or insulators?

GRADE

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.





STOP HERE . . . Complete remaining portion AFTER experiment. Write a sentence describing a material that surprised you as being either a conductor or an insulator.



©2018 Georgia Power Company. Trademarks are property of their respective owners. All content and images owned or licensed by Georgia Power Company. All rights reserved.



Simple circuit language!

GRADE

Instructions: For a power source to light a light bulb, there must be an uninterrupted pathway. This is called a circuit. Learn the circuit language below and match the correct words to the simple circuit picture!

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 tech 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 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.



©2018 Georgia Power Company. Trademarks are property of their respective owners. All content and images owned or licensed by Georgia Power Company. All rights reserved.