

Energy Efficiency: Circuits, Insulators, and Conductors

ACTIVITY

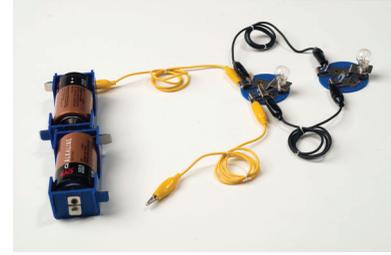
In each box above the circuits, label appropriately as parallel or series. Under each picture, circle whether the circuit is open or closed.



OPEN or CLOSED



OPEN or CLOSED



OPEN or CLOSED

Circle the best tool for making a circuit more energy-efficient.



How does this item make a circuit more energy-efficient? Write your answer below.



Savvy and Squander™

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ACROSS:

1. The origin of force or energy used to do work (ex: generator and battery)
7. A material that slows the flow of energy
8. The capacity to do work
9. Using energy and technology wisely; use less energy to provide the same level of performance, comfort, convenience, or light
10. A path through which electric current flows
13. Device to measure energy used
15. An incomplete path that does not allow electric current to flow
16. A unit of measure for electrical power (amps x volts)

DOWN:

2. An in-house evaluation provided to educate customers on how to make their homes more energy-efficient
3. Known as a "CFL"; yields the same amount of lumens as traditional incandescent bulbs while using 75% less energy and emitting much less heat
4. A flow of electricity through a conductor
5. A material that allows the flow of energy
6. A complete path allowing electric current to flow
11. The brightness of a light
12. Energy used to do an amount of work over time
14. The flow or movement of charges

WORD BANK:

- | | |
|-------------------|--------------------------|
| Energy | Conductor |
| Circuit | Open Circuit |
| Insulator | Watt Meter |
| Closed Circuit | Compact Fluorescent Bulb |
| Electric Current | Power |
| Energy Efficiency | Lumens |
| Watts | Power Source |
| Energy Audit | Electricity |

