

o Electricity (electrical energy) is one of the many forms of energy. o Hint: Use the fan example to analyze the steps of forming or generating the electrical energy from the source to the user Electrical energy is generated, distributed and utilized as follows

1. The electrical source or generator produces electricity
2. The conductor (wires or cables) transfer electrical energy from the electrical source to the load (users).

o Apply a practical experiment of connecting a basic circuit

o Conductors: Iron, Copper, Aluminum

o Insulators: Wood, Rubber & Porcelain

Answer Q4&5 in PF WS 1

Wire of copper as a conductor

o Wires are made of copper, to connect each element in an electrical circuit with the other

o When using wires (conductors) to connect a voltage source with a bulb, we enable the current to follow through the wire to reach the bulb and light it up Now its connected through a conductor!!

The electrical circuit we just connected is a basic/simple electrical circuit that consists of:

basic/simple electrical circuit:

both drawing are correct, choose the easier for you

Answer Q7 in PF WS 1

+ - Power Source Load Conductor R1

The three main elements in an electrical circuits: POWER SOURCE CONDUCTORS A LOAD

Answer Q6 in PF WS 1

o What is flowing though the wire ?

3. The load transforms electrical energy into the kind of energy required (kinetic in a fan, thermal (heat) in a heater, etc.). Because voltage push the electricity

o What is ohm's law indicating about voltage?