

Build Your Own Flashlight Handout

Match vocabulary with correct definition by drawing a line between them

Atom	Electron	Negatively charged particle
Electron		The ability of a material to direct electrical charges
Electrical current		Basic unit of matter consisting of neutrons, protons and electrons
Conductor		Creating a closed loop for electrons to flow through
Closed circuit		A material which offers large resistance to the flow of electric current
Insulator		Flow of electrical charges

Step by Step Procedure of How to Build Your Own Flashlight!

1. Tape the copper wire to the negative end of one of the D batteries
2. Tape the bottom of the toilet paper roll so no light will shine through
3. Stack the two D batteries together and tape around the edges to secure them together
4. Place this unit in the toilet paper roll. The side of the unit where wire is taped to the battery, should be placed on the bottom of the toilet paper roll. The wire should run up the side, inside the roll, and stick out the top
5. Tape the light bulb to the top of the battery
6. Touch the wire to the silver part of the bulb. If everything is correct, the light bulb should light up! If it does not, look at the potential pitfalls section to find the error

Name three ways you could conserve energy in your everyday life:

- 1.
- 2.
- 3.