

Electrical Engineering #2

Name: _____
Section: _____
Date: _____
Partner: _____

I. Introduction

Matching- Match the definition to the correct term from the Word Bank.

- _____ 1. A component that controls the flow of electricity
- _____ 2. An electrical circuit that the same current flows through each component in order
- _____ 3. A power source
- _____ 4. A substance that allows electricity to easily pass through it.
- _____ 5. An electrical circuit that the same current flows equally through each component
- _____ 6. The flow of electricity through a cable, wire, or other conductor
- _____ 7. A route which electrical current can flow, beginning and ending at the same place
- _____ 8. A device or part, such as a resistor or transistor, that is part of an electronic circuit
- _____ 9. A material or device that prevents or reduces the passage of electricity
- _____ 10. A direct electrical connection to the earth

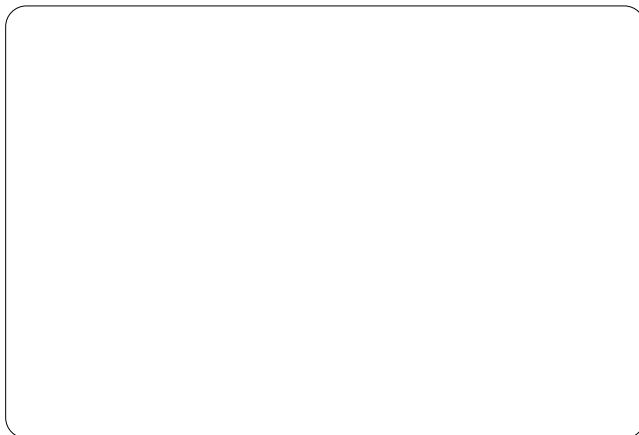
Word Bank

- a. Battery
- b. Circuit
- c. Component
- d. Conductor
- e. Current
- f. Ground
- g. Insulator
- h. Parallel
- i. Resistor
- j. Series

II. Construct from Instructions

Build, Draw, & Label- Using the SNAP kits & example circuit books, create two complete circuits. When finished building, draw an example in the space below. On each diagram, label the following parts of your circuit: **batteries, conductor:** _____, & **resistor:** _____

Example #1:



Type of Circuit:

Series _____
Parallel _____

Did the circuit work?

Yes _____
No _____

Example #2:

Type of Circuit:

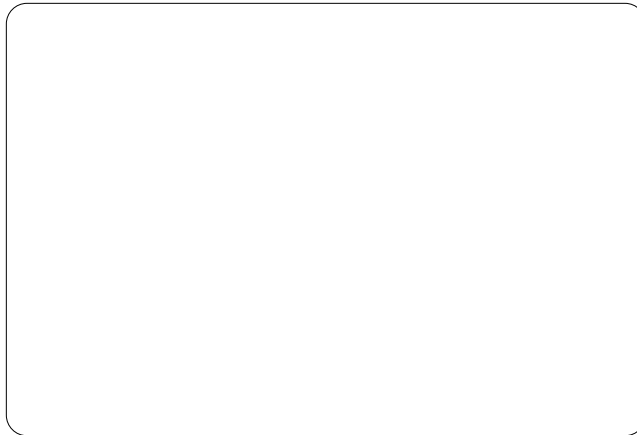
Series _____

Parallel _____

Did the circuit work?

Yes _____

No _____



III. Construct Your Own

Build, Draw, & Label- Using the SNAP kits, create one completely unique circuit. When finished building, draw an example in the space below. On the diagram, label the following parts of your circuit: **batteries**, **conductor**: _____, & **resistor**: _____

Example #3:

Type of Circuit:

Series _____

Parallel _____

Did the circuit work?

Yes _____

No _____

