Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Simple Circuits**

I. Electricity cannot flow without:

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

II. The flow of electricity is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

A. Electricity flows around a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ only.

III. The circuit has:

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D. There can only be a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ if the circuit is connected with a material that

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

E. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are good conductors.

IV. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ allows us to turn the electricity in a circuit \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to save us \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

V. Circuit can contain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ devices.

A. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ needs a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

B. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ uses a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Exit Ticket**

1. Which of these circuits will work?

Circuit A Circuit B

Neither Both

2. Please explain why you think this.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Name: \_Answer Key\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Simple Circuits**

I. Electricity cannot flow without:

A. \_A power supply.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. \_A closed circuit to travel around.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

II. The flow of electricity is called a \_current\_\_.

A. Electricity flows around a \_\_circuit\_\_ in \_\_one\_\_ \_\_direction\_\_ only.

III. The circuit has:

A. \_battery\_\_\_\_\_\_

B. \_bulb\_\_\_\_\_\_\_\_\_

C. \_wires\_\_\_\_\_\_\_\_\_

D. There can only be a \_\_current\_\_ if the circuit is connected with a material that

\_\_conducts\_\_ \_\_electricity\_\_.

E. \_\_Metals\_\_ are good conductors.

IV. A \_\_switch\_\_ allows us to turn the electricity in a circuit \_on\_\_ or \_\_off\_\_ to save us \_\_energy\_\_.

V. Circuit can contain other \_electrical\_\_ devices.

A. A \_\_fan\_\_ needs a \_\_motor\_\_.

B. A \_\_door\_\_\_ \_\_bell\_\_ uses a \_\_buzzer\_\_ and a

\_\_switch\_\_\_.

**Exit Ticket**

1. Which of these circuits will work?

Circuit A Circuit B

Neither **Both**

2. Please explain why you think this.

\_\_Both circuit A and circuit B will work because they both have a battery to supply power, a light bulb, a switch to turn on and off, and wires for the electricity to pass through that connect all the pieces together. It doesn’t matter what side you put the switch as long as it’s connected by the wires and makes a complete circuit.**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**