

Name: _____

Period: _____

HW Unit 9:4 — Circuit Basics

Mr. Murray, IPC

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A-day: Due Mon., 3/26 (Assig: 3/22)

B-day: Due Tues., 3/27 (Assig: 3/23)

1. Give three ways you could connect wires to make sure they have a good connection.
 2. When the switch was up was the light on or off?
 3. Using this light bulb, show me where the wires have to connect to make the light bulb light up.
 4. Using the same graphic, show what path the electricity must take for the light bulb to be on.
 5. Draw a battery with the positive end pointing to the right.
 6. Draw a resistor:
 7. Draw a switch:
 8. Draw a light bulb:
 9. Draw a battery connected to two light bulbs, then a switch.
10. Voltage, Current, or Resistance?
A) ____ Flowing electrons.
B) ____ Pushes electrons thru the circuit.
C) ____ Is like a pump for water.
D) ____ Measured in Ohms.
E) ____ Measured in Amps.
F) ____ A battery gives this.
G) ____ Slows down the electricity.
H) ____ Does work in the circuit.
I) ____ Measured in volts.
J) ____ 12 ohms
K) ____ 36 volts.
L) ____ 5 amps.
11. If a light bulb doesn't light, is that an open or closed circuit?
12. If electrons flow thru the wires is that an open or closed circuit?
13. A bit of review: Go thru your notes and find the UNITS for the following (give the abbreviations):
A) Mass is measured in _____.
B) Acceleration is measured in _____.
C) Work is measured in _____.
D) Velocity is measured in _____.
E) Momentum is measured in _____.
F) Kinetic Energy is measured in _____.
G) Weight is measured in _____.
H) Distance is measured in _____.
I) Time is measured in _____.
J) Force is measured in _____.

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