

# AP Physics 1

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Series  
DC Circuits

1. Resistor	2. Current	3. electrostatic force (emf)	4. Battery	5. resistor
-------------	------------	------------------------------	------------	-------------

current = \_\_\_\_\_  
 current = \_\_\_\_\_  
 emf = \_\_\_\_\_  
 battery = \_\_\_\_\_  
 resistor = \_\_\_\_\_

Ex. 1. In which case below would the light bulb illuminate?



Explain your answer. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**The Water Tower**  
 It is often times helpful to think of a circuit as a type of river or stream. The \_\_\_\_\_ is representative of the flow of electrons or current. The water flows down stream because of a decrease in elevation (water flows downhill) or a change in \_\_\_\_\_ energy. This is analogous to flow change in \_\_\_\_\_ potential across a circuit. Furthermore, there might be great water flow, but it might not impede the flow of water. This is analogous to a \_\_\_\_\_ such as a light bulb.

**Resistor**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Current eq.**  

$$I = \frac{\Delta Q}{\Delta t}$$

**Ohm's law**  

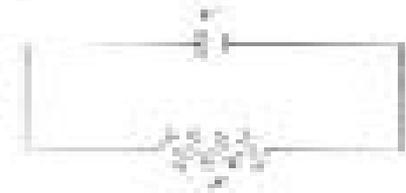
$$V = IR$$

**Power**  

$$P = IV$$
  

$$P = I^2 R$$

Ex. 2. In the diagram at right, a 9V battery is connected to the 4Ω resistor in a simple circuit. a) Determine the current,  $I$ , in the wire. b) Label the positive and negative terminals of the source. c) Use an arrow to indicate in which direction the current is traveling. d) In which direction are the electrons flowing? e) Determine the power of the source.



**Series vs. parallel**  
 When multiple resistors are connected along a \_\_\_\_\_ they are said to be in series.  
 When there is more than one \_\_\_\_\_ for the current, the circuit is said to be in parallel.

**Resistors in series**  

$$R_s = \sum R_i$$

**Resistors in parallel**  

$$\frac{1}{R_p} = \sum \frac{1}{R_i}$$

Ex. 3. Draw an example of a simple circuit a) in series and b) a simple circuit in parallel.

# Pre Ap Circuits 2 Key Murray

**JL Elias**



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