

Name: _____

HW Unit 9:5—Voltage, Current, Resistance

A-day: Due Wed., 3/28 (Assig: 3/26)

Period: _____

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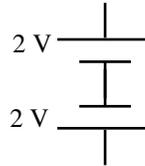
B-day: Due Thurs., 3/29 (Assig: 3/27)

- Resistance is measured in what units?
- Current is measured in what units?
- Voltage is measured in what units?
- Which has more current a big river or small stream?
- Which uses more current, a bright or dim light?
- Which uses more current, a loud or soft radio?
- Which gives more voltage a big or small water pump?
- Which gives more voltage a 1.5V or 9V battery?
- Which has more voltage, water coming from the top of a mountain or coming from the top of a table?
- Which will have *less* resistance: an insulator or a conductor?
- Which is a better *conductor*: 200 Ω or 10 Ω .

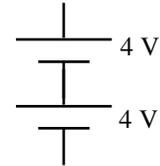
- From my water demo.
 - Which hose had the most resistance: the big or small hose?
 - Which hose had the most current flowing: big or small?
 - When I lifted up the bucket, did the water flow more or less?
 - When I lifted the bucket, it was an example of more voltage, more current, or more resistance?

- Find the total voltage of the following:

A.

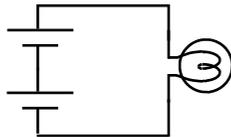


B.



- Do resistors use or create voltage?
- A 24 V battery pushes thru a 6 Ω resistor. Find the current.
Variables Equation Solve
- If 6 A are flowing thru a 8 Ω resistor. Find the voltage.
Variables Equation Solve

- Mark where this circuit has high, medium, and low voltage.



- Do batteries use or create voltage?

- Control, Experimental, or Responsive Variable?

HW Unit 9:5

- ___ What you are studying in the experiment.
 - ___ There are many of these in a good experiment.
 - ___ What happens in the experiment.
 - ___ Only one of these in a good experiment.
- When we were studying how voltage affected current:
 - Give two control variables.
 - What was our experimental variable?
 - What was our responsive variable?
 - When we were studying resistance:
 - What was our responsive variable?
 - What was our control variables?
 - What was our experimental variable?

Get your conclusion statements in.
