



Name \_\_\_\_\_  
 Period \_\_\_\_\_  
 Date \_\_\_\_\_

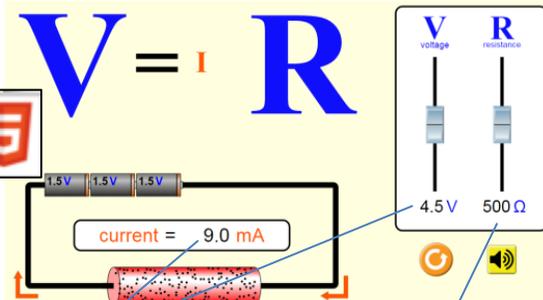


Google phet ohm's law

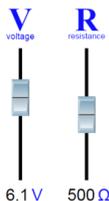
All Images Videos News More Search tools

About 18,100 results (0.36 seconds)

Ohm's Law 1.3.2 - PhET  
<https://phet.colorado.edu/.../ohms-law/>... University of Colorado Boulder  
 m. = V I R current = 9.0 mA 1.5 V voltage 4.5 V R  
 resistance 500 Ω . Ohm's Law.



**Set up:** If asked to open app, click on the html5 logo:



**Part 1 Directions:** Move the sliders up and down until the values in the table are achieved. Fill in the rest of the table, below.

Voltage	Current	Resistance
4.5 V	current = 9.0 mA ÷1000A/mA = 0.009 A	500 Ω
V	current = 12.1 mA ÷1000A/mA = A	Ω
V	current = 5.1 mA ÷1000A/mA = A	Ω
V	mA ÷1000A/mA = A	218 Ω
V	mA ÷1000A/mA = A	822 Ω
2.9 V	mA ÷1000A/mA = A	Ω
7.7 V	mA ÷1000A/mA = A	Ω

**Part 1 Questions:**

1. What happened to the letters V, I and R as you moved the sliders?
2. There is a mathematical relationship (like multiply/divide/add/subtract) between V, I and R. Using the values in the table, can you find it? Circle the correct mathematical symbol in the table, below.

V		I		R
4.5	+ × - ÷ =	0.009	+ × - ÷ =	500

3. How can you get current to be as large as possible?

