

Assignment:

PHYSICS Ohm's Law Online Lab			
Part 1: Exploring the Simulation			
1. Describe what changes in the circuit as the voltage is increased.			
2. Describe what happens in the equation when the voltage is increased. What do to changes illustrate?	those		
3. Describe what changes in the circuit as the resistance is increased.			
4. Describe what happens in the equation when the resistance is increased. What changes illustrate?	do the		
5. How do the sliders for voltage and resistance need to be moved to produce the source at 2	SMALLEST		

6. How do the sliders for voltage and resistance current?	need to be moved to produce the LARGEST
Part 2: Quantitative Relationship Between Varia	ables
7. Data Table for First Resistance. Above the tabl fill in the table.	e enter the resistance that you used and then
Resistance =	Ω
Voltage (V)	Current (mA)
8. Data Table for the Second Resistance. Above t then fill in the table.	he table enter the resistance that you used and
Resistance =	: Ω
Voltage (V)	Current (mA)

9. Data Table for the Third Resistance. Above the table enter the resistance that you used and then fill in the table.

Resistance =	= Ω
Voltage (V)	Current (mA)

10. Use data from the investigation to describe the relationship between voltage, resistance, and current.