Resistance Worksheet

Simulation:	https://phe	t.colorado.ed	du/sims/html/	resistance-in	-a-wire/latest	/resistance-	in-a-wire	en.html
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1.	Draw an example of a resistor with a resistance of 1.00 ohms. Label the resistivity, the length, and the
	area. Show mathematically that your resistor would have a resistance of 1.00 ohms.

- 2. What do black dots within the cork represent?
- 3. Develop a method to test how the resistance of a resistor changes as the length changes. Describe how you would complete this in a lab. Collect data for at least five trials. Graph your data and briefly explain the results in 1-3 sentences.

Method			
Resistance	Resistivity	Area	Length

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4. Develop a method to test how the resistance of a resistor changes as the resistivity changes. Describe

6. Is it possible to decrease the resistance of the wire without changing the material it is made of? Justify your answer.