

Name: _____

Resistance Lab Worksheet

1. Is the potentiometer linear or logarithmic? Record data below.

Position	Resistance from Center to Leg 1	Resistance from Center to Leg 2	Resistance from Leg 1 to Leg 2
0			
1/4			
1/2			
3/4			
1			

2. Repeat with the DIY potentiometer made with pencil lead or a several feet of nichrome wire

Position	Resistance
0	
1/4	
1/2	
3/4	
1	

3. Shine a flashlight on the photoresistor and record the distance to the light versus the resistance.

Distance or position	Resistance	Calculated Current	Measured Current

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4. Thermistor measurements

Temperature	Method	Resistance