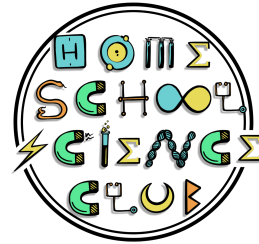


Thank You!!



Thanks for downloading the homemade lightbulb assessment sheet. This is meant to accompany the corresponding video "Making Homemade Lightbulbs" (Episode 44) on [youtube.com/homeschoolscienceclub](https://www.youtube.com/homeschoolscienceclub).

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Name _____

Date _____

Homemade lightbulbs

1. Georg Ohm was a _____ physicist who discovered _____ equals electrical current times resistance
 - A. Australian/friction
 - B. French/voltage
 - C. German/voltage
 - D. German/friction

2. The standard scientific unit for current is the _____ while the unit for resistance is the _____.
 - A. ohm/ampere
 - B. ampere/ohm
 - C. joule/ampere
 - D. watt/ohm

3. True/False: Voltage is defined as the amount of force that is opposing the current.

4. True or False: In a closed circuit, when there is large amounts of current and resistance, the voltage will be _____.
 - A. low
 - B. high
 - C. equal to the voltage plus the resistance
 - D. equal to the voltage minus the resistance

5. In the experiment in the video, the homemade lightbulb filament was made of carbon for a mechanical pencil, the filament in modern day lightbulbs is made of _____ so it can burn longer.
 - A. tungsten
 - B. graphite
 - C. iron
 - D. steel Alloy

Name _____

Date _____

Homemade lightbulbs- Answer Key

1. Georg Ohm was a _____ physicist who discovered _____ equals electrical current times resistance
 - A. Australian/friction
 - B. French/voltage
 - C. German/voltage
 - D. German/friction
2. The standard scientific unit for current is the _____ while the unit for resistance is the _____.
 - A. ohm/ampere
 - B. ampere/ohm
 - C. joule/ampere
 - D. watt/ohm
3. True/False: Voltage is defined as the amount of force that is opposing the current.
False: Resistance is the amount of force that is opposing the current
4. True or False: In a closed circuit, when there is large amounts of current and resistance, the voltage will be _____.
 - A. low
 - B. high
 - C. equal to the voltage plus the resistance
 - D. equal to the voltage minus the resistance
5. In the experiment in the video, the homemade lightbulb filament was made of carbon for a mechanical pencil, the filament in modern day lightbulbs is made of _____ so it can burn longer.
 - A. tungsten
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