

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

## Basic Instruments and Measurements Student Activity Sheet 2-1

Complete each statement below by filling in the missing word or words

1. \_\_\_\_\_ A red plus (+) sign on a meter represents \_\_\_\_\_ polarity.
2. \_\_\_\_\_ A black negative (-) sign on a meter represents \_\_\_\_\_ polarity.
3. \_\_\_\_\_ A (an) \_\_\_\_\_ is used to measure the volume of electrons flowing through a circuit.
4. \_\_\_\_\_ An ammeter is connected in \_\_\_\_\_ with the load.
5. \_\_\_\_\_ To extend the range of an ammeter, a/an \_\_\_\_\_ can be added. \_\_\_\_\_ these are connected in \_\_\_\_\_ to the meter movement coil.
6. \_\_\_\_\_ An ammeter can be easily damaged if connected directly across the source voltage because its meter coil winding has a very \_\_\_\_\_ resistance.
7. \_\_\_\_\_ A/an \_\_\_\_\_ is used to measure electrical pressure in a circuit.
7. \_\_\_\_\_ A voltmeter is connected in \_\_\_\_\_ with the circuit.
8. \_\_\_\_\_ A/an is used to measure the opposition to current in a circuit.
9. \_\_\_\_\_ A/an \_\_\_\_\_ is damaged if the circuit remains energized while taking a reading.
10. \_\_\_\_\_ A VOM can be used to read \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_ .
11. \_\_\_\_\_ An electrical drawing that indicates the location of each component in a circuit and the value of each is known as a/an \_\_\_\_\_ diagram.
12. \_\_\_\_\_ A voltmeter should be connected in \_\_\_\_\_ with the load.
13. \_\_\_\_\_ A ohmmeter should be connected in \_\_\_\_\_ with the load.
14. \_\_\_\_\_ A \_\_\_\_\_ meter is used to measure the current of a circuit.