

Name _____

Voltage and Schematics

Date _____ 9 _____

Today you will work at centers to help demonstrate your understanding of schematics. You will have to draw circuits, build circuits based on drawings and determine voltage.

Drawing Schematics

Circuit #____	Circuit #____
Circuit #____	Circuit #____
Circuit #____	Circuit #____

Building Circuits *You must show your circuit to Ms. Campbell in order to receive credit.*

#_____

#_____

#_____

#_____

Determining Voltage in Drawings

- a) Draw schematics for each of the circuits described.
- b) Assume that EACH cell in the diagram contains 4V, unless otherwise stated.
- c) Draw a voltmeter across only one of the bulbs. Indicate the voltage reading you would see on the voltmeter at that point.

1. 3 cells in a series with 2 bulbs in a series.

V = _____

2. 5 cells in a series with 3 bulbs in a series.

V = _____

3. One 9V battery with 3 bulbs in parallel.

V = _____

4. 4 cells in a series with 2 parallel circuits containing 2 bulbs each.

V = _____

5. 2 cells in parallel with 2 bulbs in a series.

V = _____