

**Diagram an Atom**

Name \_\_\_\_\_ Period \_\_\_\_\_

- I. List the 3 basic particles of the atom, give their charge, and tell where they are found (nucleus or energy level).

Particle	Charge	Location

**II. Atom diagrams**

*Directions:* Write the name of each element shown by the chemical symbol. Then draw a diagram showing the nucleus of an atom and the number of energy levels. Inside the nucleus, write in the number of protons. Determine the number of neutrons for this assignment using the following formula.

$$\text{Neutrons} = \text{Atomic mass (rounded off)} - \text{Atomic Number}$$

Indicate the correct number of electrons in each energy level.

$$\text{Number of Protons} = \text{Atomic number}$$

$$\text{Number of Electrons} = \text{Atomic number}$$

1) C _____	2) Be _____
3) O _____	4) Mg _____

5) Ar \_\_\_\_\_

6) Ca \_\_\_\_\_

7) S \_\_\_\_\_

8) Na \_\_\_\_\_

9) Al \_\_\_\_\_

10) Ag \_\_\_\_\_  
(1 valence electron)