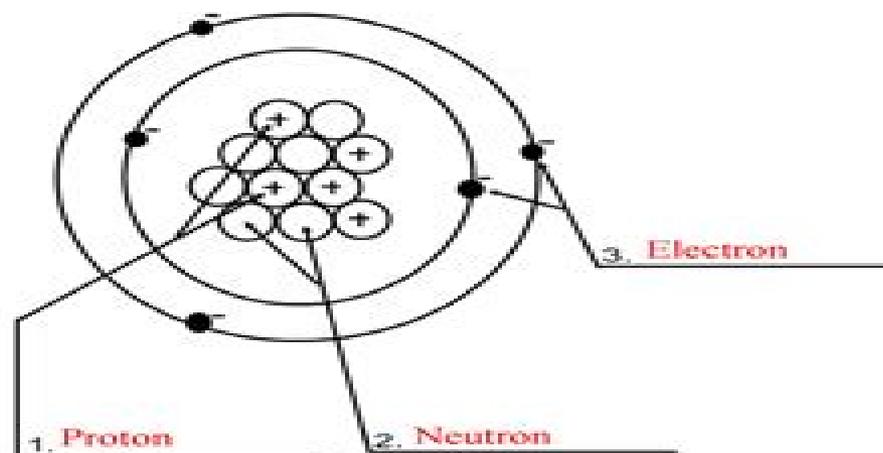


## Atomic Structure Worksheet

Label the parts of an atom on the diagram below.



4. What type of charge does a proton have?  
**Positive (+1)**

5. What type of charge does a neutron have?  
**Neutral (0)**

6. What type of charge does an electron have?  
**Negative (-1)**

7. Which two subatomic particles are located in the nucleus of an atom?  
**Protons and neutrons**

8. If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?  
**35**

9. What is the atomic number of the atom in the diagram above?  
**5**

10. What is the atomic mass/mass number of the atom in the diagram above?  
**(11+11=22) \*protons and neutrons added together) 22 is the atomic mass/mass number**

11. How many protons are in the nucleus of an atom with an atomic number of 15?  
**15 \*number of protons is the same as the atomic number**

12. How many electrons are in the nucleus of an atom with an atomic number of 20?  
**20**

13. How many neutrons are in the nucleus of an atom with an atomic number of 25?  
(use Periodic Table for mass)  
**30 Neutrons. atomic mass: 54.938 ~ 55 atomic number: 25.....55-25=30**

14. What is the mass number of an atom with 3 protons, 4 neutrons, and 3 electrons?  
**Mass number= 6.94. (Li-Lithium has an atomic number of 3 which means it has 3 protons.**

15. How many neutrons are in the nucleus of an atom that has an atomic mass of 36 and an atomic number of 25?  
**Neutrons= 11 (atomic mass: 36 - 25 :atomic number)**

# Chapter 4 Atomic Structure Worksheet Answers

**SB Merriam**



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