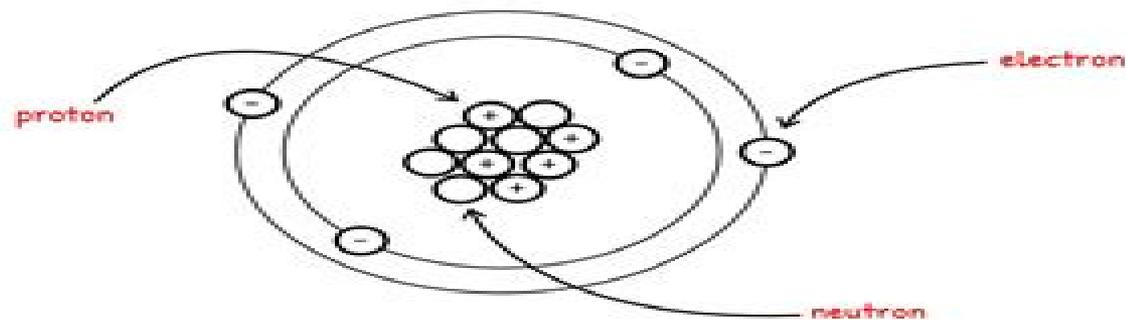


# Atomic Structure

Label the parts of an atom on the diagram below, and answer the questions!



- What type of charge does a proton have?  
Positive (+1)
- What type of charge does a neutron have?  
Neutral (0)
- What type of charge does an electron have?  
Negative (-1)
- Which two subatomic particles are located in the nucleus of an atom?  
Protons and neutrons
- If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?  
35
- What is the atomic number of the atom in the diagram above?  
5
- 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
- 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
- How many electrons are in the nucleus of an atom with an atomic number of 20?  
20
- 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..... $55-25=30$
- What is the mass number of an atom with 3 protons, 4 neutrons, and 3 electrons?  
Mass number = 6.9% (Li-Lithium has an atomic number of 3 which means it has 3 protons.
- 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)

# Atomic Structure Guided Practice Problems Answers

**Patrick E. McMahon, Rosemary  
McMahon, Bohdan Khomtchouk**



## **Atomic Structure Guided Practice Problems Answers:**

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