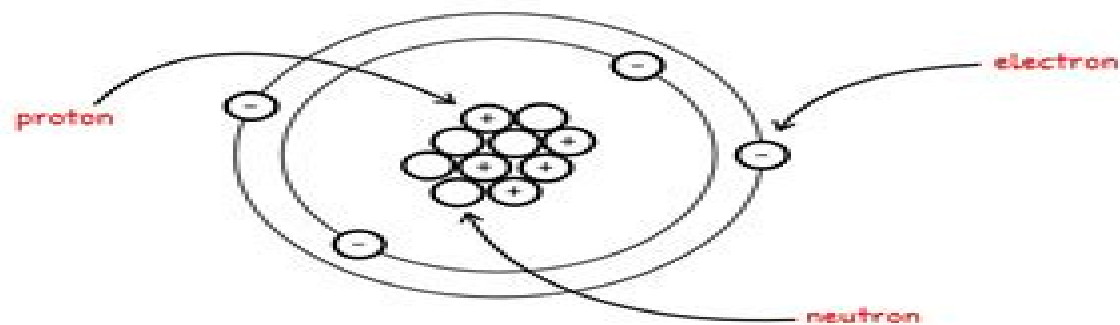


Name answer key

Date _____

Atomic Structure

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



1. What type of charge does a proton have?
Positive (+1)
2. What type of charge does a neutron have?
Neutral (0)
3. What type of charge does an electron have?
Negative (-1)
4. Which two subatomic particles are located in the nucleus of an atom?
Protons and neutrons
5. If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?
35
6. What is the atomic number of the atom in the diagram above?
5
7. 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
8. 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
9. How many electrons are in the nucleus of an atom with an atomic number of 20?
20
10. 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..... $55-25=30$
11. 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.
12. 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

SA Dillow

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Atomic Structure Guided Practice Problems Answers:

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