

Periodic Table

What is the element found in Period 3, Group 3 (main block)? What is its atomic number and atomic weight? How many electrons, protons, and neutrons are present?

What property of an element determines its chemical properties?

Name the eight main groups of the periodic table. Describe where metals, nonmetals, and metalloids are generally found.

List the 4 tenants of Dalton's Atomic Theory.

What is an isotope? Give an example and justify.

Draw a representation of the Bohr Model of the atom. Interpret your drawing.

Name and determine how many protons, neutrons, and electrons are in each element.

$^{31}_{15}\text{P}$

$^{127}_{53}\text{I}$

$^{47}_{23}\text{Ag}$

$^{14}_6\text{C}$

Calculate the average atomic mass for Lithium.

7% ^6Li (6.015 g/mol), 93% ^7Li (7.016 g/mol)

Neon has 2 major isotopes, Neon-20 and Neon-22. Out of every 250 neon atoms, 225 will be Neon-20 (19.992 g/mol) and 25 will be Neon-22 (21.991 g/mol). Find the average atomic mass of Neon.

Calculate the percent abundance of the two isotopes of Nitrogen if ^{14}N (13.9 g/mol) and ^{15}N (14.7 g/mol) provide an average mass of 14.01 g/mol.

Is there more of ^{35}Cl or ^{37}Cl ?