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Atomic Number - The number of protons in the nucleus of an atom. The atomic number of an element never changes, meaning that the number of protons in the nucleus of every atom in an element is always the same.

Hydrogen = 1, Carbon = 6, Oxygen = 8 (located on top of element of periodic table)

Mass Number - # of neurons + # of protons = mass number (located on bottom of periodic table)

Isotopes - Let's say an atom is missing a neutron or has an extra neutron. That type of atom is called an isotope. An atom is still the same element if it is missing an electron.

Example: (carbon-14)

Distribution 8/W subatomic particles in an Atom - A typical atom consists of three subatomic particles: Protons, Neutrons, and Electrons.

 Nucleons include protons and neutrons. All the positive charge of an atom is contained in the nucleus, and originates from the protons. Neutrons are neutrally-charged. Electrons, which are negatively-charged, are located outside of the nucleus.

Roles of subatomic particles: Protons, Neutrons, & Electrons - Particle Mass:

Protons & Neutrons have about same mass. Electrons have much less mass than protons and neutrons.

Particle Charge:

Protons have a positive charge (+)

- Neutrons have no charge (0)
- Net charge of the nucleus is positive and equal to the number of protons.

General Chemistry Placement Exam Study Guide

Mark Steyvers

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music for Festive Trumpet Tune by David German arranged by jindra2005 for Organ (Solo) Festive Trumpet Tune - David German Festive Trumpet Tune: Madonna della Strada Weddings Festive Trumpet Tune David German. This majestic piece was written by the composer as a gift to his wife for their own wedding ceremony.