

Keypoints of Basic Atomic Structure

Definitions

You will not be asked to write a definition of any of these but I do expect you to recognize them when they are used in problems, etc..

Definitions

Atom

Atomic Number

Atomic Radius

Electrons

Element

Isotope

Neutrons

Periodic Table

Protons

Subatomic Particles

Concepts

1. Be able to describe how protons, neutrons and electrons are arranged in an atom.
2. Be able to list the charges on the subatomic particles that make up an atom, and give their relative sizes.
3. Recognize whether it is the mass of the protons, neutrons, and/or electrons that are (is) principally responsible for the mass of an atom.
4. Be able to explain how different atoms of the same element are able to have significantly different masses.
5. Be able to explain how elements are ordered in the periodic table.
6. Be able to describe trends in atomic radii that are seen in the periodic table.