

Unit #3: Vocabulary

Definitions are found on Miss Virga's website: missvirga.weebly.com

Rutherford's Gold Foil Experiment	2 main conclusions: ① atom is mostly empty space ② atom has a small, dense, positively charged nucleus
Bohr Model	 electrons orbit nucleus in energy levels/shells
Proton	⊕ charged subatomic particle, located in the nucleus, identifies the element (atomic #)
Neutron	neutral (Ø charge) subatomic particle, located in the nucleus
Electron	⊖ charged subatomic particle, located in orbitals outside nucleus
Mass number	the total # of protons + neutrons
Atomic number	the # of protons in the nucleus
Nuclear charge	charge of the nucleus (equals atomic #)
Average atomic mass	<u>weighted</u> average of all the naturally occurring isotopes of an element
Lewis Dot Diagram	Shows element symbol & # of valence electrons
Electron configuration	given on P.T., tells the # of electrons in each electron shell
Valence electrons	the outermost electrons (last # of electron conf.) ★ responds
Excited and ground states	electron conf. on P.T. → ground state excited state is when e ⁻ jumps to a higher level
Bright line spectrum	used to identify elements, produced when e ⁻ move from excited state back to ground state

Isope: atoms of same element w/ diff. masses