

Valence Electrons & Lewis Dot Diagrams

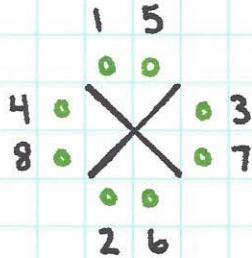
1ve		3ve 4ve 5ve 6ve 7ve																		8ve	
H	2ve	B	C	N	O	F	He	Only 2 ve		Noble Gases have a FULL valence shell											
Li	Be	Al	Si	P	S	Cl	Ne														
Na	Mg	Br	Kr	I	Xe	Rn															
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn										
Rb	Sr											Ag									
Cs	Ba											Au									
Fr	Ra																				

* Memorize the name & symbol for the elements!

Valence Electrons: the electrons located in the outermost energy level (s & p orbitals)

Valence electrons determine the element's chemical reactivity, or how it bonds with other elements.

Lewis Dot Diagrams:



- ~ The element symbol goes in the center.
- ~ Each • represents one ve⁻.
- ↳ Maximum # is 8ve⁻ (octet rule)!

~ The electrons are pairs, not in a circle.

EXAMPLES:

