Determining Shells and Valence Electrons Notes

Valence Electrons

Each electron _____ can hold a certain number of electrons

Electron shells are filled from the _____.

Noble Gases have _____outer electron shells

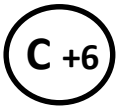
All other elements have _____ outer electron shells

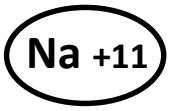
Shell 1	Shell 2	Shell 3	Shell 4	Shell 5	Shell 6	Shell 7

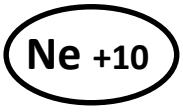
Elements have the same number of _____ as their period.

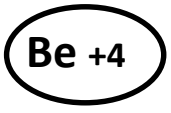
Elements have the same number of _____ as their group.

Transition Metals are special cases that you will learn about in high school.







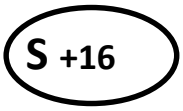


Shells:

Valence electrons:

Shells:

Valence electrons:



Shells:

Valence electrons:

Shells:

Valence electrons:

Valence Shells & Reactivity

Atoms want to gain _____.

Atoms will try to _____ electrons to have a _____ valence shell

Noble gases are usually _____ because they have full valence shells

Metals try to _____ electrons. _____ and _____ _____ metals are the most reactive.

Non-Metals try to _____ electrons, with _____ being the most reactive.

Gaining & Losing Electrons

Electrons are _____ charged; Protons are _____ charged.

Neutral atoms do not have a charge because the _____ _____.

When atoms gain or lose electrons they become positively or negatively _____.

An atom with a charge is called an _____.