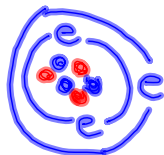
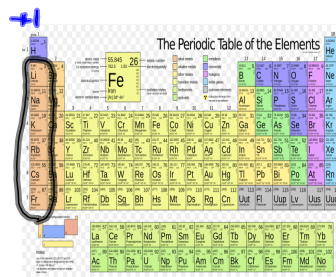


Alkali Metals



Hydrogen is typically not included in the family

very soft

low melting point and density

Very reactive with water

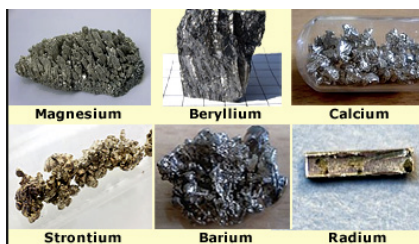
Most reactive of the metals

One extra electron --> kicks the electron out

Lithium, sodium, potassium cesium,

Alkaline Earth Metals

The Periodic Table of Elements



group #2

Physical:

Shiny, silvery white, low density, low melting/boiling points

reactivity: second most reactive family

ion: loose 2 electrons and form + ions with a +2 charge.



Transition Metals



The Periodic Table of Elements

Group 3-12

Physical: High density, High melting/boiling point

Hard and Shiny

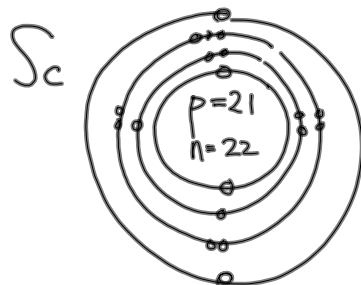
ductile- bend and not break

Conduct electricity

Less reactive than alkali

ion formation: no specific #

All are Cations (lose electrons)



Metalloids



The Periodic Table of the Elements

group: elements from groups 13-16

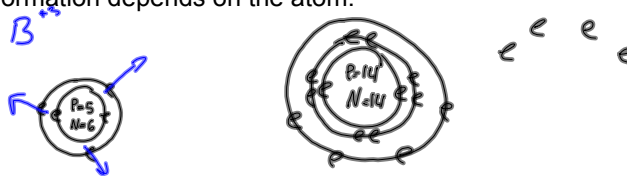
Physical: very different : not similar to one another

conduct electricity: Silicon and Germanium

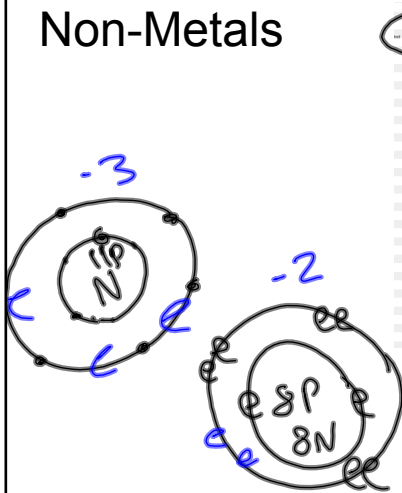
some are not malleable (ductile).

Reactivity: do not react with other metals

Ion formation depends on the atom:



Non-Metals



The Periodic Table of the Elements

Group: 14-16

Physical: not metal like

poor conductors of electricity

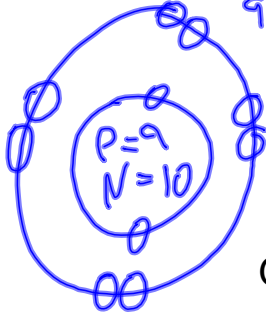
low elasticity

high ionization energy and
electronegativity

Reactivity: Highly volatile = not stable

High Ionization energy

Halogens



Group # 17

Non-metallic Toxic when in their pure form

Highly reactive (Florine is the MOST REACTIVE ELEMENT)

Anion -1 charge

Noble Gasses

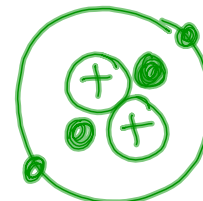
Group: 18

Odorless
Colorless

Colorless

Odorless

Low reactivity



Inert = unreactive

Inner Transition Metals

All Metals

Many are man made

All radioactive

BUT pretty non-reactive

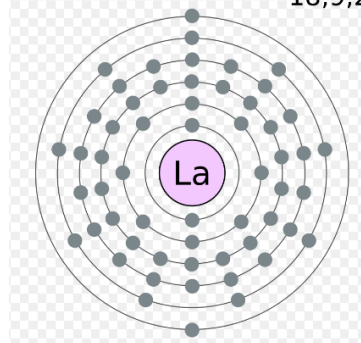
tend to loose electrons (cations)

Examples

Lanthanum and Uranium

The Periodic Table of the Elements

57: Lanthanum 2,8,18,
18,9,2



What could quiz you on?

examples of ~~elements~~ from each group

ID'ing the numbers on the periodic table

difference between the atomic mass and the mass number

ID'ing the element from # of protons ect

Definitions on the green foldable

Isotopes and Ion's (draw them)

👁️ How to draw an atom

Characteristics of families

