Topic 2 – The Periodic Table

Lesson 2 – Types of elements and their properties

Terms to Know

Malleable –

Ductile –

Brittle –

Luster –

Conductivity –

Electronegativity –

Ionization Energy –

Density –

Atomic Radius –

Ionic Radius –

 

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| Type of Element | Phases at STP | Physical Properties | Conductivity | Electro-negativity | Ionization Energy | Electrons in Bonding | Common Ion | Ionic Radius |
| Metals | SolidLiquid | MalleableLusterDuctile | High | Low | Low | Lose Electrons | + (positive) | Smaller than atom |
| Nonmetals  | SolidLiquidGas | BrittleDull | Low | High | High | Gain Electrons | -(negative) | Larger than atom |
| Metalloids | Solid only | Properties of Metals and Nonmetals | Low | Varies | Varies | Lose electrons | + (positive) | Smaller than atom |