

Unit 1 - Classification of Matter

- Types of matter solid, liquid or gas
- Qualitative vs quantitative
- Homogenous vs Heterogenous mixture
- Chemical Change vs. Physical Change

- Periodic table - trends, families, reactivity etc.
 - *Reactivity of metals increases as you go down and left*
 - *Reactivity of nonmetal increases as you move up and right*
- Periodic law

PERIODIC LAW - when elements are arranged in order of increasing atomic mass, chemical and physical properties form a pattern that repeats at regular intervals.

- Elements
- Atoms
- Subatomic particles (Protons, electrons, neutrons)
- Isotopes
- Calculating atomic mass
- Ions
- Bohr Theory
- Quantum Mechanical Model
- s,p,d,f orbitals
- Electron configurations-ground state & exceptional