

## Chemical Foundation of Cells (Ch 2)

Elements- \_\_\_\_\_

\_\_\_\_\_

Protons ( ) - \_\_\_\_\_

\_\_\_\_\_

Electrons ( ) - \_\_\_\_\_

\_\_\_\_\_

Periodic table - \_\_\_\_\_

Isotopes - \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Covalent bond - bond formed by the sharing of a pair of electrons by two atoms.

Hydrogen bond - non-chemical bond between positively charged H atom in one polar molecule and an electronegative atom (O) in another molecule.

Solvent - a dissolver for hydrophilic substances (water dissolves salt).

Cohesion - process when molecules resist separation ( $H_2O$ ).

### Structure of an Atom

## Energy Levels (Shell Models)

Shell #1	
Shell #2	
Shell #3	

Nonpolar Covalent Bond (C <sub>2</sub> , H <sub>2</sub> , O <sub>2</sub> , etc.)	Polar Covalent Bond (Water Molecule)
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