

Atoms, Molecules, and Ions
Matter

Element

Atom

Molecule

Ion

Isotope

Compound

Cation/Anion

Monoatomic/Diatomic/Polyatomic

Organic/ Inorganic

Molecular/Ionic

Empirical/Molecular

What do these symbols mean:

Species	Atom	Molecule	Ion	Compound
He				
H ₂				
Li				
Li ⁺				
H ₂ O				
N ₂				
NH ₃				
NH ₄ ⁺				
C ₂ H ₆				
CH ₄				
CO ₂				
NaCl				