



2021 Syllabus

Objective: to provide a general idea about the concepts that may appear in the competition

Scope: the syllabus covers the major conceptual and topical areas that are critical to holistic understanding of Chemistry.

What it is not: the syllabus is not meant to be exhaustive or detailed.

Secondary Junior (Grades 7 - 9); **Secondary Senior** (Grades 10 - 12)

Areas	Concepts
Practical	Instrument; Process; Evidence; Safety Environment; Industry
Matter	Atom; Molecule; Element; Compound Ion; Charge; Bond; Molecular structure; Energy; Phase
Reactions	Formula; Reaction; Conservation; Balance; Equilibrium; Classification; Acid-Base-Salt; Neutralization
Stoichiometry	Mole; Mass; Volume; Density; Conservation of Mass; Concentration; Solution
Periodicity	Periodicity; Group; Period; Metal & Nonmetal; Electronegativity; Reactivity
Others	...

