

Online 1:1 Summer Classes (Chemistry for Grade 9 & 10)

WEEK 1 & 2

Introduction to Chemistry

- Atomic symbols and their meanings
- Naming and writing formulas for binary compounds (ionic and covalent) Balancing chemical equations using coefficients
- Writing electron configurations and determining valence electrons
- Scientific notation and exponential notation for large and small numbers

WEEK 3

Matter , Elements and Compounds

- Physical properties of matter (color, odor, density, etc.)
- Elements, compounds, and their characteristics
- Homogeneous and heterogeneous mixtures

WEEK 4 & 5

Periodic Table, Periodic Properties and Variation of Properties

- Atomic structure and properties of elements
- Periodic table and its organization
- variation of physical properties
- variation of chemical properties
- Group trends and families

WEEK 6

Chemical Bonding

- Introduction to chemical bonding
- ionic bonding
- covalent bonding

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WEEK 7

Acid Bases and Salts

- Properties of Acids
- Properties of Bases
- pH and Acid Base Indicators
- Neutralization Reaction
- Acid Rain and Environmental Impact

WEEK 8

Stoichiometry

Mole Concept

Balancing Chemical Equations

Percent Yield

Solution Stoichiometry

Gas stoichiometry

WEEK 9

Electrolysis

Electrolytes And Electrolysis

Electrolytic Cells And Electrodes

WEEK 10 & 11

Study Of Compounds- Water, Ammonia, Hydrogen Chloride

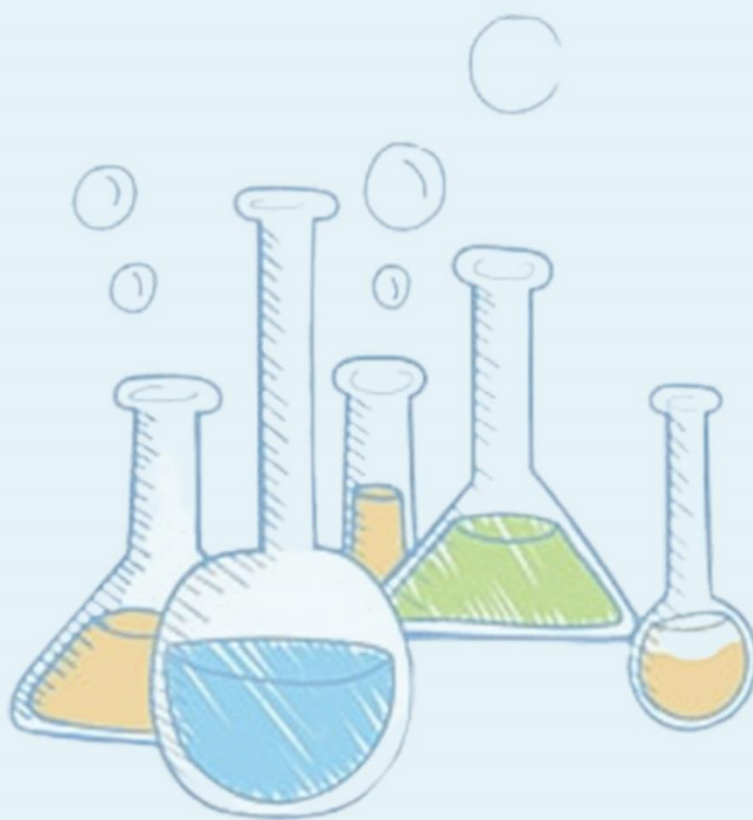
- Chemical Structure And Formula
- Physical Properties
- Chemical Properties
- Chemical Properties And Reactions
- Biological Significance And Environmental Impact

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WEEK 12

Organic Chemistry

- Functional Groups
- Nomenclature And Iupac



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