

NN Classroom

Alvin Bio Chem

IGCSE, AL, IB & DSE Expert



WhatsApp : 5498 0469



Facebook : Alvin Wong Bio Chem



Instagram : nnclassroom_hk



<https://www.nnclassroom.com>



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Topic 1: Stoichiometry

- Introduction to stoichiometry
- The mole concept
- Limiting reagent in

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Topic 2: Atomic structure

- The earliest atomic models
- Electron configuration

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Topic 3: Periodicity



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Topic 3: Metals

- Occurrence
- Extraction
- Reactivity series
- Corrosion of

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Topic 7: Redox reactions, chemical cells

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- Thermodynamic feasibility of redox reactions
- Standard electrode potentials
- Electrochemical cells
- Electrolysis

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Topic 6: Human physiology

- Digestion and absorption
- The blood system
- Defence against infection
- Osmotic balance
- Neurons and synapses
- Hormones, homeostasis

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Topic 4: Ecology

- Species, communities and ecosystems
- Energy flow
- Carbon cycling
- Climate change

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Topic 12: Patterns in the chemical world 化學世界中的規律

- Periodic variation in physical properties of the elements from Li to Ar
- Bonding, stoichiometric composition and acid-base properties of the oxides of elements from Na to Cl
- Use of Na and its compounds in everyday life
- General properties of transition metals, transition metal complexes

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Topic 4: Chemical bonding

- Ionic bonding and structure
- Covalent bonding
- Coordinate covalent bond
- Intermolecular forces
- Molecular bonding

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Topic 5: Energetics / thermochemistry

- Measuring energy changes
- Heat & Enthalpy
- Bond enthalpies

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Topic 7: Equilibrium

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Topic 8: Acids and bases

- Theories of acids and bases
- Properties of acids and bases
- The pH scale
- Strong and weak acids
- Acid-base reactions

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Topic 9: Redox processes

- Oxidation and reduction
- Electrochemical cells

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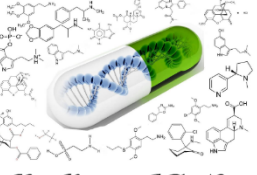
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If I have seen further than others,
it is by standing upon the shoulders of giants

Isaac Newton



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Gold Standard Chemistry Notes
Final Revised HKDSE

