



IBMYP Sciences Course

Biology, Chemistry, Physics Courses
For Years 9-11 IB Students

Course Objectives

Our objectives focus on bridging the knowledge gap between MYP Sciences and IBDP Sciences. We aim to:

- Strengthen understanding of core concepts in Biology, Chemistry, and Physics.
- Enhance skills in answering examination-style questions, boosting confidence and performance in IBDP assessments.

Why Choose Us

- **Expert Instruction:** Learn from the best! Our MYP courses are led by experienced senior science teaching faculty, who bring a wealth of knowledge and practical insights to the classroom.
- **IBDP Preparation:** Our classes are structured to ensure a smooth transition and solid preparation for the IBDP chemistry, biology and physics curriculum.

COURSE OVERVIEW

BIOLOGY

COURSE ONE

Membrane Transport, Gas Exchange, Transport Systems (Human & Plant)

COURSE TWO

Nervous System, Hormonal System, Ecology, Human Impact on the Environment

CHEMISTRY

COURSE ONE

States of Matter, Atomic Structure, Bonding, Stereochemistry, Periodicity, Acid and Base, Metal

COURSE TWO

Energetic, Kinetic, Equilibrium and Organic Chemistry

PHYSICS

COURSE ONE

Motion, Forces, Energy, Thermal Physics

COURSE TWO

Waves, Electricity and Magnetism, Nuclear Physics

Course Structure

- **Total Duration:** 96 hours
- **2-Year Program:** Course 1 followed by Course 2 (one lesson per week)
- **1-Year Program:** Courses 1 and 2 simultaneously (two lessons per week)

Drilling Questions

A significant component of this course will focus on drilling question skills.

This will include:

- Regular practice with exam-type questions
- Techniques for breaking down complex questions
- Time management strategies for exams

Sign Up Now!

Registration Form



<https://shorturl.at/X0cnQ>

Cana Elite (Sheung Wan)

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Sheung Wan

Cana Elite (Shek Mun)

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Unit H, 6/F, Kings Wing Plaza 1
3 On Kwan Street
Shek Mun (MTR Exit C)

IBMYP Sciences Course Schedule

Schedule				
Starting Date	Day	Time	Location	Price
2 Feb	Sun	16:30 - 17:30	Shek Mun	\$450
8 Feb	Sat	18:15 - 19:15	Sheung Wan	

**Sign Up
Now!**

Chemistry Course Outline

Course 1	
Chapter	Topic
Principles of Chemistry	(a) States of Matter
	(b) Elements, Compounds, and Mixtures
	(c) Atomic Structure
	(d) The Periodic Table
	(e) Chemical Formulae, Equations, and Calculations
	(f) Ionic Bonding
	(g) Covalent Bonding
	(h) Metallic Bonding
	(i) Electrolysis
	Inorganic Chemistry
(b) Group 7 (Halogens) - chlorine, bromine and iodine	
(c) Gases in the Atmosphere	
(d) Reactivity Series	
(e) Acids, Alkalis and Titrations	
(f) Chemical Tests	

Course 2	
Chapter	Topic
Physical Chemistry	(a) Energetics
	(b) Rates of Reaction
	(c) Reversible Reactions and Equilibria
Organic Chemistry	(a) Introduction
	(b) Alkanes
	(c) Alkenes
	(d) Alcohols
	(e) Carboxylic Acids
	(f) Esters
	(g) Synthetic Polymers

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Biology Course Outline

Course 1	
Chapter	Topic
Membrane transport	(a) Understand the different types of membrane transport
	(b) Experiments for studying membrane transport
Gas exchange (human and plants)	(a) Human respiratory system
	(b) Structure and adaptations of the alveoli
	(c) Leaf structure
	(d) Need for gas exchange in photosynthesis
Transport (human and plants)	(a) Composition of blood
	(b) Structure of blood vessels
	(c) The heart
	(d) Single and double circulatory system
	(e) Xylem and phloem transport

Course Structure

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- **1-Year Program:** Courses 1 and 2 simultaneously (two lessons per week)

Course 2	
Chapter	Topic
Nervous system	(a) Types of neurones
	(b) Reflex arc
	(c) Synaptic transmission
Hormonal System and Homeostasis (Human & Plants)	(a) Control of blood glucose levels and diabetes
	(b) Thermoregulation
	(c) Excretory system
	(d) Plant phototropism and geotropism
Ecology	(a) Ecological Terms
	(b) Food Chains and Food Webs
	(c) Carbon and Nitrogen Cycle
	(d) Population Growth
Human Impact on the Environment	(a) Deforestation
	(b) Burning of Fossil Fuels
	(c) Greenhouse Effect and Global Warming
	(d) Eutrophication

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Physics Course Outline

Course 1	
Chapter	Topic
Motion, forces, and energy	(a) Motion
	(b) Density
	(c) Forces
	(d) Momentum
	(e) Energy, work and power
	(f) Pressure
Thermal Physics	(a) Kinetic Particle Model of Matter
	(b) Thermal Properties and Temperature

Course Structure

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- **1-Year Program:** Courses 1 and 2 simultaneously (two lessons per week)

Course 2	
Chapter	Topic
Waves	(a) General Properties of Waves
	(b) Light
	(c) Sound
Electricity and Magnetism	(a) Circuits
	(b) Electromagnetic Effects
Nuclear Physics	(a) Nuclear Model of Atoms
	(b) Radioactivity
Astrophysics	(a) Earth and the Solar System
	(b) Stars and the Universe