

SUMMER INTENSIVE COURSE 2026

IBDP1 Elite Head-Start Programme

For Incoming IBDP1 / Year 12



COURSE OUTLINE

Biology

Marjorie

Brunel University of
London | RCHK

Economics / Business

Terry Lao

Diploma Examiner
(Economics)

Maths / Physics

Nicholas

MPhil in Mechanical
Engineering

Chemistry

Eden Ngai

100% IB Chemistry 6 or 7
for 6 consecutive years



IBDP 1 Elite Head-Start Programme

Master the IB Transition with IB Examiner and Experts this Summer

Bridge the gap to IBDP1 with confidence

In just **8 hours**, student will:

- Master **foundational core concepts** early to eliminate transition stress and confidently outperform your classmates from day one.
- Learn exact **answering structures** to secure high marks on your *first school assessment*.
- Master **IBDP exam format** and understand the specific grading rubrics to write **IB 7s answers**.

CUBE Education

- Top Scorer's Choice
- **100%** students see **improvements** in 2 months
- **96%** achieved **Level 6 or 7**
- **75%** scored **40 or above**

We build every session around students for **real, fast and lasting progress**.

Elite Academic Support at CUBE from Day One

- **Concept-First Teaching:** We break down difficult IB topics until they are simple and intuitive to use under exam pressure.
- **Personalised and high-impact learning:** We find your exact weak spots, fix the knowledge gaps, apply targeted practice, and refine your mistakes for real, fast and lasting progress.
- **Revision-Ready Study Tools:** Save hours of study time with our pre-organized ultimate revision notes and question banks.
- **24/7 Digital Learning on *Compass*:** Get exclusive online access to our learning portal with over 20 years of sorted past papers and exam resources. (selected subjects)
- **Examiner-Level Strategy:** Learn the exact phrases and answering framework that IB examiners look for to award full marks.
- **Unlimited after-class support:** Message our tutors directly for instant help when you get stuck late at night.



Terry is an excellent and funny teacher who has a lot of interactive teaching methods. His notes are very systematic and simple and provide a clear guideline on how to approach each unit. I strongly recommend signing up for his lessons!

Baihan Zhu | RCHK | CUHK MBChB & GPS
IB Economics HL - Level 7 | 45/45



From Level 4 to Level 6 in 12 months

I would recommend having Edén as a Chemistry tutor. Edén is sharp in terms of identifying the student's weakness and creating a tailored learning experience

for them. From then, Edén emphasizes the conceptual learning in Chemistry, as well as answering techniques to each paper. Having Edén as my Chemistry tutor is the best investment in my Chemistry career.

Chris So | RCHK (Class of 2025)
IB Chemistry HL - Level 6 | 41/45



Secured Level 7 in 2 months

Edén quickly helped me identify both foundational topics and complex concepts where my understanding was lacking. He offered a wealth of practice resources that improved my test-taking skills

and shared invaluable strategies for tackling challenging exam question types.

Adrian Pang | DC (Class of 2025) | HKU Dentistry
IB Chemistry HL - Level 7 | 41/45

From Level 4 to Level 6 in 3 Months

I found Terry in March 2025. Despite the limited time we had to prepare for the IB exam, I'm sure Terry's strategy suggested and instruction on essay presentation helped immensely with improving my econ from a 4 to a 6!

Seton Chan | PLKCKY (Class of 2025)
IB Economics HL - Level 6 | 40/45

Biology

Course Focus & Core Skills

- **Advance Syllabus Prep:** Preview and master the essential core topics taught at the very beginning of DP1 under the new IB Biology syllabus at the SL level.
- **Build the Core Foundation for IB Biology 7:** Focus deeply on molecules, cells, and macromolecules, which form the vital structural foundation for all later DP1 Biology topics.
- **Targeted Exam Practice:** Drill multiple choice, data analysis, and exam-style structured questions to strengthen core exam technique *before you first school assessment*.

What You Will Take Away

- **Exclusive Course Booklet:** Receive a comprehensive booklet with syllabus-coded notes and targeted practice questions.
- **Step-by-Step Application in Exam:** Build foundational knowledge systematically, moving smoothly from raw biological theory into practical exam application.
- **Final Consolidation Session:** Use the final recap lesson to consolidate all topics, helping you seamlessly connect ideas, walk into Year 12 with total confidence and secure top scores early.

Topics to be Covered

Lesson	Date/Time		Topics	
	Sha Tin Centre	Wan Chai Centre		
1	13 Jul (Mon) 12:30 - 14:30	27 Jul (Mon) 12:30 - 14:30	A1.1 Water	• Polarity and hydrogen bonding • Cohesion, adhesion, solvent properties • Biological importance of water
			A1.2 Nucleic Acids	• DNA vs RNA structure • Nucleotide composition • Base pairing rules
2	15 Jul (Wed) 12:30 - 14:30	29 Jul (Wed) 12:30 - 14:30	A2.1 Origins of Cells (HL)	• Endosymbiotic theory • Evidence for common ancestry
			A2.2 Cell Structure	• Prokaryotic vs eukaryotic ultrastructure • Functions of organelles • Microscopy and magnification practice
3	20 Jul (Mon) 12:30 - 14:30	3 Aug (Mon) 12:30 - 14:30	B1.1 Carbohydrates and Lipids	• Monosaccharides, polysaccharides • Saturated vs unsaturated fats • Energy storage roles
			B1.2 Proteins	• Amino acids and peptide bonds • Levels of protein structure • Denaturation and enzyme function
4	22 Jul (Wed) 12:30 - 14:30	5 Aug (Wed) 12:30 - 14:30	Recap and Exam Practice	• Quick review of all topics • Mixed Paper1 and Paper2 style questions • Examiner-style marking walkthrough



ABOUT MARJORIE

BIOLOGY

Brunel University of London | RCHK

- 4+ years of experience in IB, (I)GCSE teaching
- 7 in Biology HL
- BSc (Hons) in Physiotherapy, Brunel University of London
- 100% IB Biology students achieve Level 6/7
- 100% of students improve at least 1 grade in 2 months

Chemistry

Course Focus & Core Skills

- **Advance Syllabus Prep:** Preview and master the essential core topics taught at the very beginning of DP1 to ensure seamless transition.
- **Decode the Exam Format:** Learn the exact format, assessment criteria, and rubrics of the IB Chemistry examination *before your first school assessment*.
- Learn the core **experimental techniques**
- Master the logic framework in approaching **paper 1B questions** that *schools don't teach*.

What You Will Take Away

- **Exclusive Course Booklet:** Receive a comprehensive booklet with key knowledge summaries and targeted practice questions.
- **Answering Techniques:** Master specific, efficient exam techniques to accurately handle different exam question types under timed conditions.
- **Secure top scores early:** Build a solid foundation early to confidently secure a top position when the school term begins.

Topics to be Covered

Lesson	Date/Time		Topics
	Sha Tin Centre	Wan Chai Centre	
1	13 Jul (Mon) 09:30 - 11:30	27 Jul (Mon) 09:30 - 11:30	Structure 3.2: Introduction to Organic Chemistry • Homologous series and functional groups • Naming of organic compounds (IUPAC nomenclature) • Structural isomers
2	15 Jul (Wed) 09:30 - 11:30	29 Jul (Wed) 09:30 - 11:30	Structure 3.1: Moles • The Mole concept and Avogadro's constant • Empirical formula & Molecular formula • Excess v.s. Limiting reagent • Percentage yield
3	20 Jul (Mon) 09:30 - 11:30	3 Aug (Mon) 09:30 - 11:30	Structure 2: Atomic Structure and Bonding • Subatomic particles of atoms • Electron configuration - Orbital theory • Basic understanding on the type of bondings • Drawing of Lewis structures
4	22 Jul (Wed) 09:30 - 11:30	5 Aug (Wed) 09:30 - 11:30	Paper 1B: Experimental Techniques • Principles of designing an investigation • Propagation of uncertainties • Standard solution and dilutions • Separation of mixtures



ABOUT EDEN

CHEMISTRY

100% IB Chemistry 6 or 7 for 6 consecutive years

- Imperial College / RCHK graduate
- 7+ years of experience in IB, (I)GCSE teaching
- IB 41/45 with 7 in Chemistry HL (92%); (I)GCSE 6 A*
- 100% IB Chemistry Level 6 or 7 since 2020
- 100% of students improve at least 1 grade in 2 months

Economics

Course Focus & Core Skills

- **Advance Syllabus Prep:** Preview and master the essential core topics taught at the very beginning of DP1 to ensure seamless transition.
- **Decode the Exam Format:** Learn the exact format, assessment criteria, and rubrics of the IB Economics examination *before your first school assessment*.
- **Real-world examples:** Learn real-world economic examples for exam answers, a critical requirement for top marks.

What You Will Take Away

- **Exclusive Course Booklet:** Receive a comprehensive booklet with key knowledge summaries and targeted practice questions.
- **Answering Techniques:** Master specific, efficient exam techniques to accurately handle different exam question types under timed conditions.
- **Secure top scores early:** Build a solid foundation early to confidently secure a top position when the school term begins.

Topics to be Covered

Lesson	Date/Time		Topics	
	Sha Tin Centre	Wan Chai Centre		
1	14 Jul (Tue) 09:30 - 11:30	28 Jul (Tue) 09:30 - 11:30	The Basic Economic Problems	• Scarcity • Making Choices & Opportunity Cost • Production Possibility Curve
2	17 Jul (Fri) 09:30 - 11:30	31 Jul (Fri) 09:30 - 11:30	The Operation of the Economy	• The Circular Flow of Income Model • Private Sector vs. Public Sector • Types of Economic Systems
3	21 Jul (Tue) 09:30 - 11:30	4 Aug (Tue) 09:30 - 11:30	Demand & Supply	• Quantity Demanded vs. Demand • Quantity Supplied vs. Supply
4	24 Jul (Fri) 09:30 - 11:30	7 Aug (Fri) 09:30 - 11:30	Market Equilibrium	• Determination of Equilibrium • Excess Demand vs. Excess Supply



ABOUT TERRY

ECONOMICS / BUSINESS

IB Diploma Examiner
(Economics)

- 15+ years of experience in IB, (I)GCSE, IAL teaching
- University qualifications in both Business and Education
- 95% IB Economics/ Business Management Level 6 or 7 since 2015
- 100% of students improve grades in 2 months
- Trainer of IB 45/45

Mathematics AA SL

Course Focus & Core Skills

- **Advance Syllabus Prep:** Preview and master the essential core topics taught at the very beginning of DP1 to ensure seamless transition.
- **Decode the Exam Format:** Learn the exact format, assessment criteria, and rubrics of the IB Maths AA SL examination *before your first school assessment*.
- **Problem-Solving Efficiency:** Drill challenging question types and actual past paper questions to find solutions efficiently for top marks.

What You Will Take Away

- **Exclusive Course Booklet:** Receive a comprehensive booklet with key knowledge summaries and targeted practice questions.
- **Advanced GDC Mastery:** Master specific, efficient GDC functions *overlooked or barely covered at school* to accurately handle exam questions in Paper 2 under timed conditions.
- **Secure top scores early:** Build a solid foundation early to confidently secure a top position when the school term begins.

Topics to be Covered

Lesson	Date/Time		Topics
	Sha Tin Centre	Wan Chai Centre	
1	14 Jul (Tue) 12:30 - 14:30	28 Jul (Tue) 12:30 - 14:30	Exponents, Logarithms and the Binomial Theorem • Simplifying terms with exponent rules • Rules of logarithms • Graphical interpretation of exponential and log functions • Binomial expansion and the binomial theorem
2	17 Jul (Fri) 12:30 - 14:30	31 Jul (Fri) 12:30 - 14:30	Quadratic, Composite and Inverse Functions • Interpreting domain and range • Introduction to composite and inverse functions • Finding the roots of the quadratic • Vertex form transformation • Using the discriminant • Complete sketching breakdown to quadratic functions • Essential GDC techniques
3	21 Jul (Tue) 12:30 - 14:30	4 Aug (Tue) 12:30 - 14:30	Sequences and Series • Arithmetic sequences and series • Finite geometric sequences and series • Series in sigma notation • Infinite geometric series • Real-world context of sequences and series • Applications with logarithms
4	24 Jul (Fri) 12:30 - 14:30	7 Aug (Fri) 12:30 - 14:30	Financial Mathematics • Simple and compound interest • Inflation and depreciation • Learn the financial package of the GDC • Interpret exam questions and the corrections to equations



ABOUT NICHOLAS

MATHEMATICS / PHYSICS

HKUST | RCHK
MPhil in Mechanical Engineering

- 4+ years of experience in teaching IB and (I)GCSE
- IB 40/45 in the 2018 IB Exam
- First Hons in MPhil
- Teaching assistant at HKUST for 2 years

Mathematics AI SL

Course Focus & Core Skills

- **Advance Syllabus Prep:** Preview and master the essential core topics taught at the very beginning of DP1 to ensure seamless transition.
- **Decode the Exam Format:** Learn the exact format, assessment criteria, and rubrics of the IB Maths AI SL examination *before your first school assessment*.
- **Problem-Solving Efficiency:** Drill challenging question types and actual past paper questions to find solutions efficiently for top marks.

What You Will Take Away

- **Exclusive Course Booklet:** Receive a comprehensive booklet with key knowledge summaries and targeted practice questions.
- **Advanced GDC Mastery:** Master specific, efficient GDC functions *overlooked or barely covered at school* to accurately handle exam questions under timed conditions.
- **Secure top scores early:** Build a solid foundation early to confidently secure a top position when the school term begins.

Topics to be Covered

Lesson	Date/Time		Topics
	Sha Tin Centre	Wan Chai Centre	
1	16 Jul (Thur) 12:30 - 14:30	30 Jul (Thur) 12:30 - 14:30	Algebra Package • Introduction to logarithms and exponents • Systems of linear equations • Modelling polynomial equations • Key features and intersections of graphs • Interpreting domain and range • Essential GDC techniques
2	18 Jul (Sat) 12:30 - 14:30	1 Aug (Sat) 12:30 - 14:30	Linear, Composite and Inverse Functions • Different forms to the equation of a line • Parallel and perpendicular lines • The perpendicular bisector • Function notation and functions as a mathematical model • Introduction to composite and inverse functions
3	23 Jul (Thur) 12:30 - 14:30	6 Aug (Thur) 12:30 - 14:30	Sequences and Series • Arithmetic sequences and series • Finite geometric sequences and series • Series in sigma notation • Real-world context of sequences and series
4	25 Jul (Sat) 12:30 - 14:30	8 Aug (Sat) 12:30 - 14:30	Financial Mathematics • Simple and compound interest • Inflation and depreciation • Learn the financial package of the GDC • Interpret exam questions and the corrections to equations



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MATHEMATICS / PHYSICS

HKUST | RCHK
MPhil in Mechanical Engineering

- 4+ years of experience in teaching IB and (I)GCSE
- IB 40/45 in the 2018 IB Exam
- First Hons in MPhil
- Teaching assistant at HKUST for 2 years

Physics

Course Focus & Core Skills

- **Advance Syllabus Prep:** Preview the first two core topics with a deep focus on Topic A to build a strong foundation for the entire syllabus.
- **Decode the Exam Format:** Learn the exact format and assessment criteria, and rubrics of the IB Physics examination *before your first school assessment*.
- **Conceptual Linkage:** Master specific answering techniques to link complex physics concepts efficiently for examination questions.

What You Will Take Away

- **Exclusive Course Booklet:** Receive a comprehensive booklet with key knowledge summaries and targeted practice questions.
- **New Paper 1B Mastery:** Master the recently added Paper 1B format with a step-by-step walkthrough to handle data-based questions under timed conditions.
- **Secure top scores early:** Build a solid foundation early to confidently secure a top position when the school term begins.

Topics to be Covered

Lesson	Date/Time		Topics	
	Sha Tin Centre	Wan Chai Centre		
1	16 Jul (Thur) 09:30 - 11:30	30 Jul (Thur) 09:30 - 11:30	Kinematics and Mechanics	• Linear and Projectile Motion • Force and Momentum • Circular Motion • Rotational Mechanics
2	18 Jul (Sat) 09:30 - 11:30	1 Aug (Sat) 09:30 - 11:30	Energy Systems	• Kinetic and Potential Energy • Work and Power • Rotational Energy Systems • Efficiency and Energy Sources
3	23 Jul (Thur) 09:30 - 11:30	6 Aug (Thur) 09:30 - 11:30	Thermodynamics	• Thermal Energy Transfer • Gas Laws • Ideal Gas
4	25 Jul (Sat) 09:30 - 11:30	8 Aug (Sat) 09:30 - 11:30	Paper 1B: Experimental Techniques	• Principles of designing an investigation • Propagation of uncertainties • Mathematical techniques to answer graphical questions



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MATHEMATICS / PHYSICS

HKUST | RCHK
MPhil in Mechanical Engineering

- 4+ years of experience in teaching IB and (I)GCSE
- IB 40/45 in the 2018 IB Exam
- First Hons in MPhil
- Teaching assistant at HKUST for 2 years

Timetable

Sha Tin Centre

Room S15, 9/F, W.Luxe,
5 On Yiu Street, Shek Mun, N.T.

SUN	MON	TUE	WED	THU	FRI	SAT
12 JUL	13	14	15	16	17	18
	09:30-11:30 Chemistry Lesson 1	09:30-11:30 Economics Lesson 1	09:30-11:30 Chemistry Lesson 2	09:30-11:30 Physics Lesson 1	09:30-11:30 Economics Lesson 2	09:30-11:30 Physics Lesson 2
	12:30-14:30 Biology Lesson 1	12:30-14:30 Maths AA SL Lesson 1	12:30-14:30 Biology Lesson 2	12:30-14:30 Maths AI SL Lesson 1	12:30-14:30 Maths AA SL Lesson 2	12:30-14:30 Maths AI SL Lesson 2
19	20	21	22	23	24	25
	09:30-11:30 Chemistry Lesson 3	09:30-11:30 Economics Lesson 3	09:30-11:30 Chemistry Lesson 4	09:30-11:30 Physics Lesson 3	09:30-11:30 Economics Lesson 4	09:30-11:30 Physics Lesson 4
	12:30-14:30 Biology Lesson 3	12:30-14:30 Maths AA SL Lesson 3	12:30-14:30 Biology Lesson 4	12:30-14:30 Maths AI SL Lesson 3	12:30-14:30 Maths AA SL Lesson 4	12:30-14:30 Maths AI SL Lesson 4

Timetable

Wan Chai Centre

NEW

Rm B, 15/F, Yam Tze Commercial Building
23 Thomas Road, Wan Chai

SUN	MON	TUE	WED	THU	FRI	SAT
26 JUL	27	28	29	30	31	1 AUG
	09:30-11:30 Chemistry Lesson 1	09:30-11:30 Economics Lesson 1	09:30-11:30 Chemistry Lesson 2	09:30-11:30 Physics Lesson 1	09:30-11:30 Economics Lesson 2	09:30-11:30 Physics Lesson 2
	12:30-14:30 Biology Lesson 1	12:30-14:30 Maths AA SL Lesson 1	12:30-14:30 Biology Lesson 2	12:30-14:30 Maths AI SL Lesson 1	12:30-14:30 Maths AA SL Lesson 2	12:30-14:30 Maths AI SL Lesson 2
2	3	4	5	6	7	8
	09:30-11:30 Chemistry Lesson 3	09:30-11:30 Economics Lesson 3	09:30-11:30 Chemistry Lesson 4	09:30-11:30 Physics Lesson 3	09:30-11:30 Economics Lesson 4	09:30-11:30 Physics Lesson 4
	12:30-14:30 Biology Lesson 3	12:30-14:30 Maths AA SL Lesson 3	12:30-14:30 Biology Lesson 4	12:30-14:30 Maths AI SL Lesson 3	12:30-14:30 Maths AA SL Lesson 4	12:30-14:30 Maths AI SL Lesson 4

IB 7s students don't just study,
**they master the game rules
before day one.**

Pricing and Limited-Time Offer

IBDP 1 HEAD-START PROGRAMME (8 HOURS/SUBJECT) **\$4,000 / SUBJECT**

Limited- Time Offer

EARLY BIRD DISCOUNT (On or before 21 JUN)

EXTRA 10% OFF

ENROLL IN **2+ SUBJECTS**

\$500 OFF

ENROLL WITH A **FRIEND**

BOTH GET \$300 OFF

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