2025 IB Summer DP1

DP1 IB Biology HL/SL

Week	Date	Topic	Section
Week 1 1차 - 06/16-20 2차 - 07/14-18	Day 1	1. Molecules	Elements, Basic Chemistry, Molecules Review A 1.1 Water
	Day 2	1. Molecules	A 1.1 Water A 1.2 Nucleic Acids
	Day 3	1. Molecules	B 1.1 Carbohydrates and Lipids B 2.2 Proteins
	Day 4	1. Molecules	C 1.1 Enzymes and Metabolism
	Day 5	1. Molecules	C 1.2 Cell Respiration C 1.3 Photosyntehsis
Week 2 1차 - 06/23-27 2차 - 07/21-25	Day 6	1. Molecules	C 1.3 Photosynthesis D 1.1 DNA Replication
	Day 7	1. Molecules	D 1.2 Protein Synthesis D 1.3 Mutation and Gene Editing
	Day 8	1. Molecules	D 1.3 Mutation and Gene Editing Review 1. Molecules
	Day 9	2. Cells	A 2.2 Cell Structure A 2.1 Membranes and Membrane Transport
	Day 10	2. Cells	A 2.2 Cell Structure
Week 3 1차 - 06/30-07/04 2차 - 07/28-08/01	Day 11	2. Cells	B 2.1 Membranes and Membrane Transport
	Day 12	2. Cells	B 2.2 Organelles and Compartmentalization
	Day 13	2. Cells	B 2.3 Cell Specialization
	Day 14	2. Cells	C 2.2 Neural signaling
	Day 15	2. Cells	D 2.1 Cell and Nucelar Division
Week 4 1차 - 07/07-11 2차 - 08/04-08	Day 16	2. Cells	D 2.1 Cell and Nucelar Division D 2.3 Water Potential
	Day 17	2. Cells	Review 2. Cells
	Day 18	3. Organisms	A 3.1 Diversity of Organisms
	Day 19	3. Organisms	**B 3.1 Gas Exchange**
	Day 20	3. Organisms	A 3.2 Transport Final Review
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2025 IB Summer DP1

DP1 IB Chemistry HL/SL

Week	Date	Topic	Section
Week 1 1차 - 06/16-20 2차 - 07/14-18	Day 1	S1 Models of the Particulate Nature of Matter	S 1.1 Introduction to the Particulate Nature of Matter S 1.2 The Nuclear Atom
	Day 2	S1 Models of the Particulate Nature of Matter	S 1.4 Counting Particles by mass: the Mole
	Day 3	S2 Models of Bonding and Structure	S 2.1 The Ionic Model S 2.2 The Covalent Model
	Day 4	S1 Models of the Particulate Nature of Matter	S 1.3 Electron Configurations
	Day 5	S2 Models of Bonding and Structure	S 2.3 The Metallic Model S 2.4 From Models to Materials
Week 2 1차 - 06/23-27 2차 - 07/21-25	Day 6	Review S2	Review S2
	Day 7	S1 Models of the Particulate Nature of Matter	S 1.5 Ideal Gases
	Day 8	Review S1	Review S1
	Day 9	S3 Classification of Matter	S 3.1 The Periodic Table: Classification of Elements
	Day 10	S3 Classification of Matter	S 3.1 The Periodic Table: Classification of Elements
Week 3 1차 - 06/30-07/04 2차 - 07/28-08/01	Day 11	S3 Classification of Matter	S 3.2 Functional Groups: Classification of Organic Compounds
	Day 12	Review 3	Review S3
	Day 13	R1 What Drives Chemical Reactions?	R 1.1 Measuring Enthalpy Changes
	Day 14	R1 What Drives Chemical Reactions?	R 1.2 Energy Cycles in Reactions
	Day 15	R1 What Drives Chemical Reactions?	R 1.3 Energy from Fuels R 1.4 Entropy and Spontaneity *
Week 4 1차 - 07/07-11 2차 - 08/04-08	Day 16	Review R1	Review R1
	Day 17	R2 How Much, How Fast and How Far?	R 2.1 How much? The Amount of Chemical Change
	Day 18	R2 How Much, How Fast and How Far?	R 2.1 How much? The Amount of Chemical Change
	Day 19	R2 How Much, How Fast and How Far?	R 2.2 How fast? The Rate of Chemical Change
	Day 20	Final Review	Final Review

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2025 IB Summer DP1

DP1 IB Physics HL/SL

Week	Date	Topic	Section
Week 1 1차 - 06/16-20 2차 - 07/14-18	Day 1	Introduction A. Space, Time and Motion	A.1 Kinematics
	Day 2	A. Space, Time and Motion	A.1 Kinematics A.2 Forces and Momentum
	Day 3	A. Space, Time and Motion	A.2 Forces and Momentum A.3 Work, Energy and Power
	Day 4	A. Space, Time and Motion	A.3 Work, Energy and Power
	Day 5	Review A	Review A
Week 2 1차 - 06/23-27 2차 - 07/21-25	Day 6	B. The Particulate Nature of Matter	B.1 Thermal Energy Transfers B.2 Greenhouse Effect
	Day 7	B. The Particulate Nature of Matter	B.2 Greenhouse Effect B.3 Gas Laws
	Day 8	B. The Particulate Nature of Matter	B.3 Gas Laws B.5 Current and Circuits
	Day 9	B. The Particulate Nature of Matter	B.5 Current and Circuits Review B
	Day 10	C. Wave Behaviour	C.1 Simple Harmonic Motion C.2 Wave Model
Week 3 1차 - 06/30-07/04 2차 - 07/28-08/01	Day 11	C. Wave Behaviour	C.2 Wave Model C.3 Wave Phenomena
	Day 12	C. Wave Bahaviour	C.3 Wave Phenomena C.4 Standing Waves and Resonance
	Day 13	C. Wave Bahaviour	C.4 Standing Waves and Resonance
	Day 14	C. Wave Bahaviour	C.5 Doppler Effect
	Day 15	Review C	Review C
Week 4 1차 - 07/07-11 2차 - 08/04-08	Day 16	D. Fields	D.1 Gravitational Fields D.2 Electric and Magnetic Fields
	Day 17	D. Fields	D.2 Electric and Magnetic Fields D.3 Motion in Electromagneic Fields
	Day 18	D. Fields	D.3 Motion in Electromagneic Fields
	Day 19	Review D	Review D
	Day 20	Final Review	Final Review

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2025 IB Summer DP1

DP1 IB Math HL

Week	Date	Topic	Section
Week 1 1차 - 06/16-20 2차 - 07/14-18	Day 1	1. Number and Algebra	1.2 Arithmetic Sequence and Series 1.3 Geometric Sequence and Series + Sigma Notation
	Day 2	1. Number and Algebra	1.4 Applications (Compound interest, annual depreciation)
	Day 3	1. Number and Algebra	1.5 Laws of Exponents 1.7 Laws of Exponents with Rational Exponents + Logarithms
	Day 4	2. Functions	2.9 Exponential Functions + Logarithmic Functions
	Day 5	1. Number and Algebra	1.9 Binomial Theorem
Week 2 1차 - 06/23-27 2차 - 07/21-25	Day 6	1. Number and Algebra	1.10 (AHL) Counting Principles (Permutation and Combinations)
	Day 7	2. Functions	2.1 Different froms of the Equation of a Straight Line 2.5 Composite Functions
	Day 8	2. Functions	2.7 Solution of quadratic Equations and Inequalities + The Quadratic Formula + The Discriminant
	Day 9	2. Functions	2.8 Rational Functions 2.13 (AHL) Rational Funtions
	Day 10	2. Functions	2.11 Transformations of Graphs 2.12 (AHL) Polynomial Functions, Their Graphs and Equations; Zeros, Roots, and Factors + Remainder Theorem 2.14 (AHL) Odd and Even Functions + Inverse Functions
Week 3 1차 - 06/30-07/04 2차 - 07/28-08/01	Day 11	1. Number and Algebra 2. Functions	1.14 Complex Conjugate Roots of Quadratic and Polynomial Equations with Real Coefficients 2.16 (AHL) The Graphs of the Functions, y=|x| 1.15 (AHL) Proof by Mathematical Induction
	Day 12	3. Geometry and Trigonometry	3.2 Use of Sine, Cosine and Tangent Ratios + The Sine Rule + The Cosine Rule 3.3 Applications of Right, and Non-right Angled Trigonometry, including Pythagoras's Theorem
	Day 13	1. Number and Algebra	1.11 (AHL) Partical Frations 1.12 (AHL) Complex Numbers
	Day 14	1. Number and Algebra	1.12 (AHL) Complex Numbers 1.13 (AHL) Polar Forms
	Day 15	Review	Review 1 and 2
Week 4 1차 - 07/07-11 2차 - 08/04-08	Day 16	3. Geometry and Trigonometry	3.4 Radian Measure of Angles 3.6 The Pythagorean Identity + Double Angle Identities 3.7 The Circular Functions +Transformations
	Day 17	3. Geometry and Trigonometry	3.8 Solving Trigonometric Equations + Equations Leading to Quadratic Equations in sinx, cosx or tanx 3.9 Pythagorean Identities + Inverse Functions of Trigonometric Functions
	Day 18	5. Calculus	5.1 Introduction to the Concept of a Limit 5.3 Derivative of a Function 5.4 Tangents and Normals at a Given Point, and Their Equations
	Day 19	5. Calculus	5.6 The Product Rule + The Quotient Rule + The Chain Rule 5.15 Derivates of trigonometric Functions
	Day 20	Final Review	Final Review

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비영리 법인 미래의과학자들
FUTURE SCIENTISTS

2025 IB Summer DP1

DP1 IB Economics HL/SL

Week	Date	Topic	Section
Week 1 1차 - 06/16-20 2차 - 07/14-18	Day 1	Unit 1. Foundation of Economics 경제학 입문	1. Introduction to Economics
	Day 2		2. The Use of Models and Methods
	Day 3	Unit 2. Competitive Markets 시장과 경쟁	3. Supply & Demand
	Day 4		4. Market Equilibrium
	Day 5		5. Behavioral Economics
Week 2 1차 - 06/23-27 2차 - 07/21-25	Day 6	Review Session (1)	6. Unit 1-2 Review
	Day 7	Unit 3. Elasticities 탄력성	7. Elasticities of Demand
	Day 8		8. Elasticities of Income & Supply
	Day 9	Unit 4. Government Interventions 미시경제 정책	9. Price Controls
	Day 10		10. Indirect Taxes & Subsidies
Week 3 1차 - 06/30-07/04 2차 - 07/28-08/01	Day 11	Review Session (2)	11. Unit 3-4 Review
	Day 12	Unit 5. Market Failure 시장실패와 외부효과	12. Common Pool Resources
	Day 13		13. Negative Production Externalities
	Day 14		14. Negative Consumption Externalities
	Day 15		15. Positive Externalities
Week 4 1차 - 07/07-11 2차 - 08/04-08	Day 16		16. Assymetric Information & Inequality
	Day 17	Review Session (3)	17. Unit 5 Review
	Day 18		18. Perfect Competition & Monopoly
	Day 19		19. Monopolistic Competition & Oligopoly
	Day 20	Review Session (4)	20. HL Final Review

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비영리 법인 미래의과학자들
FUTURE SCIENTISTS

2025 IB Summer DP1

DP1 IB Business Management HL/SL

Week	Date	Topic	Section
Week 1 1차 - 06/16-06/20 2차 - 07/14-07/18	Day 1	Unit 1. Business Org & Environment 회사(會社)	1. Introduction to Business Management
	Day 2		2. Types of Organizations
	Day 3		3. Organizational Objectives
	Day 4		4. Stakeholders
	Day 5		5. Growth & Globalization
Week 2 1차 - 06/23-06/27 2차 - 07/21-07/25	Day 6	Review Session (1)	6. Unit 1 Review
	Day 7	Unit 2. Human Resource Management 인사(人事)	7. Introduction to HR
	Day 8		8. Organizational Structure
	Day 9		9. Motivation
	Day 10		10. Corporate Culture
Week 3 1차 - 06/30-07/04 2차 - 07/28-08/01	Day 11		11. Employment Relations
	Day 12	Review Session (2)	12. Unit 2 Review
	Day 13	Unit 3. Finance and Accounts 재무(財務)	13. Sources of Finance
	Day 14		14. Costs and Revenues
	Day 15		15. Final Accounts
Week 4 1차 - 07/07-07/11 2차 - 08/04-08/08	Day 16		16. Ratio Analysis
	Day 17		17. Cashflow
	Day 18		18. Investment & Budget
	Day 19	Review Session (3)	19. Unit 3 Review
	Day 20	Paper 1 Workshop	20. Paper 1: Business Case
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