

Year 2 Biology

Q8 SL				
theme	level of organization			
	molecules	cells	organisms	ecosystem
unity and diversity	A 1.1 water A 1.2 nucleic acid	A 2.1 origins of cells* A 2.2 cell structure A 2.3 virus*	A 3.1 diversity of organisms A 3.2 classification and cladistics*	A 4.1 evolution and speciation A 4.2 conservation of biodiversity
forms and functions	B 1.1 carbohydrates and lipids B 1.2 proteins	B 2.1 membranes and membrane transport B 2.2 organelles and compartmentalization B 2.3 cell specialization	B 3.1 gas exchange B 3.2 transport B 3.3 muscle and motility*	B 4.1 adaptations to environment B 4.2 ecological niches
interactions and interdependence	C 1.1 enzymes and metabolism C 1.2 cell reparation C 1.3 photosynthesis	C 2.1 chemical signalling* C 2.2 neural signalling	C 3.1 integration of body systems C 3.2 defence against disease	C 4.1 populations and communities C 4.2 transfers of energy and matter
continuity and change	D 1.1 DNA replication D 1.2 protein synthesis D 1.3 mutations and gene editing	D 2.1 cell and nuclear division D 2.2 gene expression* D 2.3 water potential	D 3.1 reproduction D 3.2 inheritance D 3.3 homeostasis	D 4.1 natural selection D 4.2 stability and change D 4.3 climate change

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Chemistry Q8 HL

Topic #	Topic	Subtopic #	Subtopic
Structure 1	Models of the particulate nature of matter	Structure 1.1	Introduction to the particulate nature of matter
		Structure 1.2	The nuclear atom
		Structure 1.3	Electron configuration
		Structure 1.4	Counting particles by mass: The mole
		Structure 1.5	Ideal gas
Structure 2	The models of bonding and structure	Structure 2.1	The ionic model
		Structure 2.2	The covalent model
		Structure 2.3	The metallic model
		Structure 2.4	From models to materials
Structure 3	Classification of matter	Structure 3.1	The periodic table: Classification of elements
		Structure 3.2	Functional groups
Reactivity 1	What drives chemical reactions?	Reactivity 1.1	Measuring enthalpy change
		Reactivity 1.2	Energy cycles in reactions
		Reactivity 1.3	Energy from fuels
		Reactivity 1.4	Entropy and spontaneity (AHL)
Reactivity 2	How much, how fast and how far?	Reactivity 2.1	How much? The amount of chemical change
		Reactivity 2.2	How fast? The rate of chemical change
		Reactivity 2.3	How far? The extent of chemical change
Reactivity 3	What are the mechanisms of chemical change?	Reactivity 3.1	Proton transfer reactions
		Reactivity 3.2	Electron transfer reactions
		Reactivity 3.3	Electron sharing reactions
		Reactivity 3.4	Electron-pair sharing reactions

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All chapter 탄탄한 복습

Year 2 Physics

Spring (Q8)

HL

Week 1	(Past paper revision) A. Mechanics
Week 2	(Past paper revision) A. Mechanics
Week 3	(Past paper revision) A. Mechanics
Week 4	(Past paper revision) B. The particulate nature of matter
Week 5	(Past paper revision) B. The particulate nature of matter
Week 6	(Past paper revision) C. Wave behaviour
Week 7	(Past paper revision) C. Wave behaviour
Week 8	(Past paper revision) C. Wave behaviour
Week 9	(Past paper revision) D. Fields
Week 10	(Past paper revision) D. Fields
Week 11	(Past paper revision) E. Nuclear and Quantum physics
Week 12	(Past paper revision) E. Nuclear and Quantum physics

Spring (Q8)

SL

Week 1	(Past paper revision) A. Mechanics
Week 2	(Past paper revision) A. Mechanics
Week 3	(Past paper revision) A. Mechanics
Week 4	(Past paper revision) B. The particulate nature of matter
Week 5	(Past paper revision) B. The particulate nature of matter
Week 6	(Past paper revision) C. Wave behaviour
Week 7	(Past paper revision) C. Wave behaviour
Week 8	(Past paper revision) C. Wave behaviour
Week 9	(Past paper revision) D. Fields
Week 10	(Past paper revision) D. Fields
Week 11	(Past paper revision) E. Nuclear and Quantum physics
Week 12	(Past paper revision) E. Nuclear and Quantum physics

** Y2 SL,HL은 공통적으로 기출문제를 통해서 전범위 복습입니다.

Year 2 Math

Week	Topic
W1(Function)	Sequence & Series Exponential & Logarithmic Function Basics
W2(Function)	Domain & Range, Composite Rational Functions, Asymptotes & Graphs
W3(Function)	Inverse Transformations of Functions
W4(Function)	Exponential & Logarithmic Function
W5(Geometry)	Fundamental Geometry Radians, Length of Arc, Area of Sector Trigonometry Fundamentals
W6(Geometry)	Trigonometry Graphs Sine Rule & Cosine Rule Trig Identities
W7(Stat / Probability)	Data Presentation Central Tendency Probability Binomial & Normal Distribution
W8(Calculus)	Differentiation Basics Tangent & Normal Lines Minimum & Maximum
W9(Calculus)	Point of Inflexion Optimization
W10(Calculus)	Integration Basics Integration by Substitution
W11(Calculus)	Definite Integral Area of a region enclosed by curves and axes
W12(Calculus)	Kinematics

Week	Topic	Topic
Week1	1.1	Arithmetic Sequences & Series
	1.2	Geometric Sequences & Series
	1.3	Sigma Notation
	1.4	Exponent Laws & Solving Equations
	1.5	Log Laws & Solving Equations
Week2	1.6	The Binomial Theorem
	1.7	Counting Principles, Combinations & Permutations
	1.8	Proof by Mathematical Induction
	1.9	Complex Numbers & De Moivre's Theorem
Week3	1.10	Systems of Linear Equations
	1.11	Proof by Deduction
	1.12	Partial Fractions
	1.13	Proof by Contradiction
	1.14	Binomial Theorem for Fractional & Negative Indices
Week4	2.1	Domain & Range, Composite, Inverse
	2.2	Transformations of Functions
	2.3	Factorising Quadratic Functions & Equations
	2.4	Completing the Square (Quadratics)
	2.5	Discriminant Test (Quadratics)
Week5	2.6	Rational Functions, Asymptotes & Graphs
	2.7	Exponential & Logarithmic Functions
	2.8	Sketching Functions with a Calculator
	2.9	Polynomial Theorems: Remainder, Factor, Division
	2.10	Sum & Product of Roots(Polynomials)
Week6	3.1	Radians, Length of Arc, Area of Sector
	3.2	Unit Circle & Trigonometric Ratios
	3.3	Trig Identities
	3.4	Trig Graphs & Circular Functions
	3.5	Solving Trigonometric Functions & Equations
	3.6	Sine & Cosine Rule, Area of a Triangle
	3.7	Degrees v Radians
Week7	3.8	Vector Basics
	3.9	Scalar Product & Angle Between Two Vectors
	3.10	Vector Equation of a Line
	3.11	Intersection of 2 Vector Lines
	3.12	Vector Product
	3.13	Equations of a Plane (Vectors)
	3.14	Intersection of a Line & Plane
Week8	4.1	Mean, Standard Deviation & Variance
	4.2	Bivariate Statistics
	4.3	Venn Diagrams & Probability
	4.4	Conditional Probability
	4.5	Probability Distribution
Week9	4.6	Binomial Distribution
	4.7	Normal Distribution
	4.8	Bayes Theorem
	4.9	Probability Density Functions
Week10	5.1	Differentiation Rules
	5.2	Equations of a Tangent
	5.3	Optimization & Calculus Curves
Week11	5.4	Integration Rules
	5.5	Integration by Substitution
	5.6	Kinematics
	5.7	Integration by Parts
	5.8	Volume of Revolution
Week12	5.9	L'Hopital's Rule
	5.10	Implicit Differentiation
	5.11	Related Rates
	5.12	Differential Equations
	5.13	Maclaurin Series

Year 2 Economics

2025 Q8 Economics HL 진도표	
1	Elasticities
2	Government Intervention
3	Externalities
4	Market Power
5	AD/AS determinants
6	Macroeconomic Objectives
7	Macroeconomic Objectives
8	Economic Inequality & Poverty
9	Macroeconomic Policies
10	Economic Integration
11	Exchange Rates (+ Balance of Payment)
12	Economic Growth & Development

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