Year 2 Math AA

Y2 MATH AA SL	
Topic	Subtopics
Probabibility Distributions	- Binomial Distribution - Normal Distribution - Z-score Operation
Differentiation	- Limit - Slope & Derivative - Various Rules - Maximum/Minimum & Point of Inflection - Tangent & Normal
Further Differential Calculus	- Differentiation of Complicated Functions - Optimisation
Integral Calculus	- Antiderivative - Integration by Substitution - Area under Curves - Kinematics

Y2 MATH AA HL	
Topic	Subtopics
Proof	- Mathematical Induction
Vector	- Vector Fundamentals & Calculations - Line - Plane - Positional Relationships Involving Lines and Planes
Further Differential Calculus	- Quick Recap of Differentiation Basics - Differentiation of Complicated Functions - Implicit Differentiation - Related Rates - Optimisation - l'Hopital's Rule
Further Integral Calculus	- Quick Recap of Integration Basics - Differential Equations - Maclaurin Series & Taylor Series

Y2 MATH AI HL	
Topic	Subtopics
Statistical Tests & Analyses	- t-test - type I & II Errors - chi-squared test
Calculus: Differentiation	- Quick Recap of Differentiation Basics - Minimum/Maximum & Point of Inflection - Concavity - Graph Interpretation with Differentiation - Tangent & Normal - Optimisation
Calculus: Integration	- Quick Recap of Integration Basics - Differential Equations - Numerical Solutions

Year 2 Biology

BIO Y2 HL				
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 repiration C 1.3 photosynthesis	C 2.1 chemical signalling* C 2.2 neural signallining	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**

BIO Y2 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 repiration C 1.3 photosynthesis	~~C 2.1 chemical signalling*~~ C 2.2 neural signallining	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**

Year 2 Chemistry

Chemistry Q7 SL

Topic #	Topic	Subtopic #	Subtopic
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

Chemistry Q7 HL

Topic #	Topic	Subtopic #	Subtopic
Structure 3	Classification of matter	Structure 3.2	Functional groups: Classification of organic compounds (AHL)
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

Year 2 Economics

Y2 Economics 진도표
4.1 Benefits of international trade
4.2 Types of trade protection
4.3 Arguments for and against trade control and protection
4.4 Economic integration
4.5 Exchange rates
4.6 Balance of payments
4.7 Sustainable development
4.8 Measuring development
4.9 Barriers to economic growth and/or economic development
4.10 Economic growth and/or economic development strategies
시간이 남으면 Micro/Macro Review

Year 2 English

		Y2 English	
Week	Day	Curriculum	Notes
1	1	Paper 1 Review: How to approach a Paper 1	Paper 1
	2	Non-literary text review: Advertisement & PSA	
	3	Non-literary text review: Cartoon & Comic	
	4	Non-literary text review: Infographic & Brochure	
	5	Non-literary text review: Magazine & Scientific Article	
2	6	Non-literary text review: Opinion Column & Speech	
	7	Non-literary text review: Website & Blog	
	8	Non-literary text review: Interview & Podcast	
	9	Literary Analysis: Novel	Paper 2
	10	Literary Analysis: Short Story	
	11	Literary Analysis: Poem	
3	12	Literary Analysis: Play	
	13	Paper 2 Writing	
	14	Paper 2 Writing	
	15	Paper 2 Writing	

Year 2 Physics

IB physics HL Y2 Q7		
Themes	Topics	Note
E. Nuclear and quantum physics (핵입자와 양자물리학)	E.1 Strucutre of the atom *	
	E.2 Quantum physics **	
	E.3 Radioactive decay *	
	E.4 Fission	
	E.5 Fusion and stars	
HL topics review	Theme A~D	
	HL only topics	

IB physics SL Y2 Q7		
Themes	Topics	Note
E. Nuclear and quantum physics (핵입자와 양자물리학)	E.1 Strucutre of the atom *	
	E.3 Radioactive decay *	
	E.4 Fission	
	E.5 Fusion and stars	
SL topics review	Theme A~D	
	core	

Y2 Psychology

Week	Topic	Y2 Daily Topics
W1	Solidifying Critical Thinking Skills& Core Knowledge	D1 Evaluating & Re-writing Bio paragrphs
		D2 Evaluating & Re-writing Cog paragraphs
		D3 Evaluating & Re-writing Sociocu Paragraphs
		D4 Evaluating Research Exercise
		D5 ERQ Structure & Writing : To what extent
W2	Option #1 Abnormal: Key concepts	D6 Biases in Diagnosis
		D7 Validity and Reliability of Diagnosis
		D8 Etiology of Depression : Biology / Sociocultural
		D9 Etiology of Depression : Sociocultural/ Cognitive
		D10 Evaluating & Re-writing Abnormal Paragraphs
W3	Option #2 Human Relationships	D11 Group Dynamics - Orgins of prejudice and discrimination
		D12 Origins of prejudice and Discrimination
		D13 Cooperation vs Competion Concepts and Experiments
		D14 Altruism - Origins & Experiments
		D15 Bystanderism : Concepts and Experiments

***Curriculums may change following the majority of students' option topics*

*** From W2, the curriculum is largely based on HL syllabus.*