2023 CONSOLIDATED TOPICS FOR END OF YEAR EXAMINATIONS (SEC 3)

Design & Technology

Subject	Stream	Content	Skill	Format
Design & Technology	3G3, 3G2	 Design (24m) Mechanisms (18m) Electronics (18m) 	Recall Comprehension Application	Designing thru sketchingShort-answerOpen-ended

Nutrition & Food Science

Subject	Stream	Content	Skill	Format
Nutrition & Food Science (NFS)	3G1	Chap 1: Protein Chap 2: Carbohydrate Chap 3: Fats Chap 4: Vitamins Chap 5: Minerals Chap 6: Water & Dietary F Chap 7: Diet and Health Problems Chap 8: Diet and Meal Planning Chap 9: Meal Analysis Chap 12: Preparation and Cooking of Food	Recall Comprehension Application	Section A: 16m (MCQ) Section B: 32m (short-answer) Section C: 32m (structured) Total: 80 marks

English & English Literature

Subject	Stream	Content	Skill	Format
English Language	3G3	Paper 1: Editing, Situational Writing, Continuous Writing	Grammar, writing and representing	Editing (10m) Situational writing (30m)
				Continuous writing (30m): Select one essay question - choice of personal recount, discursive or argumentative.
		Paper 2: Sect A: Text 1 & 2 Visual text Comprehension	Reading and viewing	Section A - Visual Text Comprehension (5m)
		Section B: Text 3 Narrative text Comprehension Section C: Text 4 Non-narrative text Comprehension		Section B - Narrative Text Comprehension (20m) Section C - Non- narrative Comprehension and Summary (25m)
		Paper 3: Listening comprehension	Listening and representing	MCQ, fill-in-the- blanks (30m)
		Paper 4: Oral Communication	Speaking and presenting	Planned Response (15m) Spoken Interaction (15m)

English Language	3G2	Paper 1: Editing, Situational Writing, Continuous Writing	Grammar, writing and representing	Editing (10m) Situational writing (30m)
				Continuous writing (30m): Select one essay question - choice of personal recount, discursive or argumentative.
		Paper 2: Sect A: Text 1 & 2 Visual text Comprehension	Reading and viewing	Section A - Visual Text Comprehension (5m)
		Section B: Text 3 Narrative text Comprehension		Section B - Narrative Text Comprehension (20m)
		Section C: Text 4 Non-narrative text Comprehension		Section C - Non- narrative Comprehension and Summary (25m)
		Paper 3: Listening comprehension	Listening and representing	MCQ, fill-in-the- blanks (30m)
		Paper 4:		Planned Response (15m)
		Oral Communication	Speaking and presenting	Spoken Interaction (15m)

English Language	3G1	Paper 1: Editing, situational writing, Continuous Writing	Grammar, writing & representing	Editing (10m), Speech (30m), Select from one essay question: Either personal recount OR descriptive (30m)
		Paper 2: Section A: Language Use Modified Cloze 1 (Vocabulary-based) Modified Cloze 2 (Grammar-based) Section B: Reading Comprehension	Reading & viewing	Part 1: Modified Cloze I (10 marks) Part 2: Modified Cloze II (10 marks) Section B: Reading Comprehension [40 marks]
		Paper 3: Listening Comprehension	Listening & viewing	Listening Comprehension: MCQ: 20m

Literature in English	G2	P1: Unseen Poetry P2: "Boom" by Jean Tay	Critical analysis and development of arguments, presented through well organised paragraphs	P1: Two Essays. Each essay will have two questions on an unseen poem. P2: Two essays. In the first essay, students will choose one of two questions to respond to. In the second essay, students will respond to a two part question based on a given passage.
Literature in English	G3	P1: Unseen Poetry P2: "Boom" by Jean Tay	Critical analysis and development of arguments, presented through well organised paragraphs	P1: Two Essays. Each essay will have two questions on an unseen poem. P2: Two essays. In the first essay, students will choose one of two questions to respond to. In the second essay, students will respond to a two part question based on a given passage.

Geography / History / Social Studies

Subject	Stream	Content	Skill	Format
Elective Geography	3G2	Geography in Everyday Life (Topics 1 and 3, 2.1. and 2.2) Tectonics Topics (1.1 to 1.3)	Describe (w Figs) Describe distribution Explain (w Figs) Evaluate GI skills - Hypothesis - Data collection - Data representation - Data analysis - Conclusion	40 marks Structured questions Q1: GIEL (Topic 3) Q2: GIEL (Topic 1 and 2.1 and 2.2) Q3: Tectonics (Topic 1.1 to 1.3)
Elective Geography	3G3	Geography in Everyday Life (Topics 1, 2, 3) Tectonics Topics (1.1 to 1.4)	Describe (w Figs) Describe distribution Explain (w Figs) Evaluate GI skills - Hypothesis - Data collection - Data representation - Data analysis - Conclusion	45 marks Structured questions Q1: GIEL (Topic 3) Q2: GIEL (Topic 1 and 2) Q3: Tectonics
Pure Geography	3G3	Geography in Everyday Life (Topics 1 to 3) Tectonics (Topics 1 to 3)	Describe (w Figs) Describe distribution Compare Explain (w Figs) Evaluate GI skills - Hypothesis - Data collection - Data representation - Data analysis - Conclusion	45 marks Structured questions Q1: GIEL (Topic 3) Q2: GIEL (Topic 1 and 2) Q3: Tectonics

Elective History	3G3	SBQ Chap 2: Impact of Hitler's rule SEQ Chap 3 (Militarist Japan) & Chap 4 (Outbreak of WWII in Europe)	Inference Purpose Comparison Reliability SEQ	Section A: Source-Based Case Study Section B: Structured Essay Questions
	3G2	SBQ Chap 2: Impact of Hitler's Rule SEQ Chap 1 (TOV/LON) & Chap 4 (Outbreak of War in Europe)	Inference Purpose Comparison Reliability SEQ	Section A: Source-Based Case Study Section B: Structured Essay Questions
Social Studies	3G2/3G3	Chapter 7: How do we respond to diversity in society?	Inference Message Comparison Reliability Structured response question 6 and 7	Section A: Source-Based Case Study Section B: Structured response question

Mathematics / Add Mathematics / Computer Applications (CPA) / Computing / POA

Subject	Stream	Content	Format
Mathematics	3G3	Secondary 3 Topics Chapter 1 to 11 Lower Secondary Topics:	Paper 1 1h 45 min Total: 70 marks Paper 2 1h 45 min Total: 70 marks
Mathematics	3G2	Secondary 3 Topics Chapter 1: Algebraic Expressions & Formulae Chapter 2: Quadratic Equations & Graphs Chapter 3: Indices & Standard Form Chapter 4: Coordinate Geometry Chapter 5: Graphs of Functions & Graphical Solution Chapter 6: Trigonometry Chapter 7: Further Trigonometry Chapter 8: Congruence & Similarity Lower Secondary Topics:	Paper 1 2h Total: 70 marks Paper 2 2h Total: 70 marks

Mathematics	3G1	Secondary 3 Topics Chapter 1: Indices, Standard Form, Compound Interest Chapter 2: Map Scales Chapter 3: Algebraic Expressions, Fractions and nth term Chapter 4: Factorisation and Formulas Chapter 5: Arc lengths and Sector Areas Chapter 6: Pyramids, Cones and Spheres Chapter 7: Cumulative Frequency Chapter 8: Graphs of Linear Equations Chapter 9: Simultaneous Linear Equations Secondary 1 & 2 Topics Numbers and Fractions Percentage Symmetry (line of symmetry and order of rotational symmetry) Rates and Proportion Algebraic Manipulations and Linear Equations Pythagoras' Theorem Congruence and Similarity Angles Probability Mathematics in Practical Situations	Paper 1 1h 30 mins Total: 50 marks Paper 2 1h 30 mins Total: 50 marks
Additional Mathematics	3G3	Sec 3 Topics Chapter 1 to chapter 9	2 hr 15 min Total : 90 marks
Computing	3G3	Chapter 2: How Can Algorithms Be Used to Solve Problems? Chapter 3: How Do I use Flowcharts and Pseudo-Code? Chapter 4: How Do I Write Programs? Chapter 5: How Can Programs Be Used to Solve Problems? Chapter 6: How Do I Ensure That a Program Works as Intended? Chapter 7: How can I Be a Safe and Responsible Computer User? (only 7.1, 7.2 and 7.3)	Paper 1: Theory paper that consist of short answer, matching questions, cloze passage and structured questions. 1h 30 min (60marks) Paper 2: Practical Tasks: Refinement, Debugging and Program Development 1h 30 min (30 marks)

POA	3G3	Chapter 1: Introduction to Accounting Chapter 2: Accounting Information system Chapter 3: Elements of Financial statements and accounting equation Chapter 4: Double- Entry Chapter 5: Trial balance and Financial statements Chapter 6: Revenue and other income Chapter 7: Cost of sales and other expenses Chapter 8: Cash Chapter 9: Inventories	Paper 1 1hour Total: 40marks Paper 2 2hours Total:60 marks
POA	3G2	Chapter 1: Introduction to Accounting Chapter 2: Accounting Information system Chapter 3: Elements of Financial statements and accounting equation Chapter 4: Double- Entry Chapter 5: Trial balance and Financial statements Chapter 6: Revenue and other income Chapter 7: Cost of sales and other expenses Chapter 8: Cash Chapter 9: Inventory	Paper 1 1 hour Total: 40marks Paper 2 2 hours Total:60 marks including a Scenario Based Question on selecting between two suppliers.

СРА	3G1	 Computer fundamentals Media Elements Document Processing Spreadsheets Interactive Multimedia Communication Animation and Game Making 	Paper 1: Theory. 1h 15min (60marks) A mixture of MCQ Short answer questions Matching questions Cloze passage Structured questions
			Paper 2: Practical. 1h 30 min (70marks) i. Inkscape ii. Word processing iii. Interactive Multimedia
			Paper 3: Practical. 1h 30 min (70marks) i. Video editing ii. Spreadsheet iii. Game making (Scratch)

Science

Subject	Stream	Topics	Format
Biology	3G3	Chap 1: Cell Structure & Organisation Chap 2: Movement of Substances Chap 3: Biological Molecules (Nutrients) Chap 4: Enzymes Chap 5: Nutrition in Humans Chap 6: Transport in Humans Chap 7: Respiration in Humans (until 7.1) Chap 12: Nutrition & Transport in Plants	
Physics	3G3	Chap 1: Physical Quantities, Units and Measurements Chap 2: Kinematics Chap 3: Dynamics (I) Mass & Weight Chap 4: Dynamics (II) Forces Chap 5: Turning Effects of Forces Chap 6: Pressure Chap 7: Energy Chap 8: Kinetic Particle Model of Matter Chap 9: Thermal Processes Chap 10 Thermal Properties of Matter	A: 20 MCQ B: 50 (structured questions) *last Question: databased 8 -12m C: 10 (2 choose 1)
Chemistry	3G3	Chap 1: Experimental Chemistry Chap 2: Kinetic Particle Theory Chap 3: Atomic Structure Chap 4: Chemical Bonding Chap 5: Structure and Properties of Materials Chap 6: Chemical Formulae and Equations Chap 8: Acids and Bases Chap 9: Salts Chap 14: The Periodic Table Chap 15.1 - Chap 15.2 Reactivity of Metals	

Science (Physics)	3G3	Chap 1: Physical Quantities, Units and Measurement Chap 2: Kinematics Chap 3: Force and Pressure Chap 4: Dynamics Chap 5: Turning Effect of Forces Chap 6: Energy Chap 7: Kinetic Particle Model of Matter Chap 8: Thermal Processes	A: 15 MCQ B: 40 (structured questions) *last Question: databased 10m C: 10 (2 choose 1)
Science (Chemistry)	3G3	Chapter 1: Experimental Chemistry Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding Chapter 5: Structure and properties of material Chapter 6: Chemical Formulae and Equations Chapter 8: Acids and Bases Chapter 9: Qualitative analysis (9.3 Test for gases ONLY) Chapter 11: The Periodic Table Chapter 12: The Reactivity Series	A: 15 MCQ B: 40 (structured questions) *last Question: 10m C: 10 (2 questions choose 1)
Science (Biology)	3G3	Chap 1: Cell Structure & Organisation Chap 2: Movement of Substances Chap 3: Biological Molecules (Nutrients) Chap 4: Enzymes Chap 5: Nutrition in Humans Chap 6: Transport in Humans Chap 9: Nutrition & Transport in Plants	A: 15 MCQ B: 40 (structured questions) *last Question: databased 10m C: 10 (2 choose 1)

Science (Physics)	3G2	Chap 1: Physical Quantities, Units and Measurements Chap 2: Kinematics Chap 3: Force and Pressure Chap 4: Dynamics Chap 6: Energy Chap 7: Kinetic Particle Model of Matter Chap 8: Thermal Processes Note Chap 5: Turning Effects of Forces is not in G2 syllabus	A: 20 MCQ B: 22 marks (structured questions) *last Question: 8m C: 8 marks (2 questions choose 1)
Science (Chemistry)	3G2	Chapter 1: Experimental Chemistry Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding Chapter 5: Structure and properties of material Chapter 6: Chemical Formulae and Equations Chapter 8: Acids and Bases Chapter 9: Qualitative analysis (9.3 Test for gases ONLY) Chapter 11: The Periodic Table Chapter 12: The Reactivity Series	A: 20 MCQ B: 22 marks (structured questions) *last Question: 8m C: 8 marks (2 questions choose 1)
Science	3G1	1. Energy 2. Effects of Forces 3. Waves 4. Electricity 5. Breathing 6. Digestion 7. Sources of Food	Paper 1 - 20 MCQ + 10m VAI (45 min) Paper 2 - 30 marks (35 mins)

Mother Tongue

Subject	Stream	Content	Skill	Format
Higher Chinese	3G3	Paper 1 Email: Informal and Formal Essay: Narrative and Expository Paper 2: Grammar, Vocabulary Comprehension	Writing Language use Comprehension	Paper 1 (80m) Duration: 2hr Section A: Email Writing - 20 m (Choose 1 out of 2 qs) Section B: Essay Writing - 60 m (Choose 1 out of 3 qs) Paper 2 (80 m): Duration: 1hr 45 min
		Paper 3: Oral	Presentation and Speaking	Paper 3 (40 m) Oral Presentation - 20 m Conversation - 20 m
Chinese Express	3G3	Paper 1 Email: Informal and Formal Essay: Narrative and Expository	Writing	Paper 1 (60m) Duration: 1hr 30 min Section A: Email Writing - 20 m (Choose 1 out of 2 qs) Section B: Essay Writing - 40 m (Choose 1 out of 3 qs)
		Paper 2: Grammar, Vocabulary Comprehension	Language use Comprehension	Paper 2 (70 m): Duration: 1hr 30 min
		Paper 3: Oral and Aural	Reading, Speaking and Listening	Paper 3 (70 m) Reading - 20 m Oral - 30 m LC - 20 m
Chinese NA	3G2	Paper 1 Email: Informal and Formal Essay: Narrative and Expository	Writing	Paper 1 (60 m) Duration: 1hr 30 min Section A: Email Writing - 20 m (Choose 1 out of 2 qs) Section B: Essay Writing - 40 m (Choose 1 out of 3 qs)
		Paper 2: Grammar, Vocabulary Comprehension	Language use Comprehension	Paper 2 (60 m) Duration: 1hr 30 min
		Paper 3: Oral and Aural	Reading, Speaking and Listening	Paper 3 (80 m) Reading - 20 m Oral - 40 m LC - 20 m

Subject	Stream	Content	Skill	Format
Chinese NT	3G1	Paper 1 Informal Email Writing, Grammar, Vocabulary Comprehension (3A, 3B Textbook) Paper 2: Oral	Writing, Language use Comprehension	Paper 1 (35 m): Duration: 50 min 1. Email Writing Grammar/Vocabulary 2. Comprehension
		'	Reading and Conversational	<u>Paper 2 (45 m)</u> Reading - 20 m Oral - 25 m
		Paper 3: Aural	Listening	Paper 3: 20 m LC - 20 m
Chinese CLB	3G3 / G2	Paper 1: Essay: Picture Compo/ Informal Email	Writing	Paper 1 (20 m) Duration: 50 min Essay/Email - 20 m
		Paper 2: Vocab and Comprehension (3A, 3B Textbook)	Language use Comprehension	Paper 2 (30 m) Duration: 1 hr 1. Vocabulary 2. Comprehension
		Paper 3: Oral and Listening Comprehension	Reading, Conversational and Listening	Paper 3 (50 m) Reading - 15 m Oral - 30 m LC - 20 m

Malay Express	3G3	Paper 1 Functional Writing (Formal and informal) Essay: Narrative Expository Paper 2 Grammar (Kata Nama, Kata Kerja, Kata Adjektif, Kata Tugas) Vocabulary Comprehension	Writing Language use Comprehension	Paper 1 (60 m) Duration: 2 hr Section A - 20 m Functional writing Blog / Forum (informal) Email writing (formal) (choose 1 out of 2 qs) Section B - 40 m Essay Writing (choose 1 out of 3 qs) Paper 2 (70 m) Duration: 1hr 30 min Section A - 20 m Penggunaan bahasa (MCQ, Free-response) Section B - 50 m MCQ Comprehension (20m) Open-ended Comprehension (30m)
		Paper 3 Reading Oral Listening Comprehension	Reading Oral Listening	Paper 3 (70 m) Reading - 10 m Oral - 40 m LC - 20 m

Malay NA	3G2	Paper 1 Functional Writing (Formal and informal) Essay: Narrative Expository Paper 2 Grammar (Kata Nama, Kata Kerja, Kata Adjektif, Kata Tugas) Vocabulary	Writing Language use Comprehension	Paper 1 (60 m) Duration: 2 hr Section A - 20 m Functional writing Blog / Forum (informal) Email writing (formal) (choose 1 out of 2 qs) Section B - 40 m Essay Writing (choose 1 out of 3 qs) Paper 2 (60 m) Duration: 1hr 30 min Section A - 10 m
		Paper 3 Reading Oral Listening Comprehension	Reading Oral Listening	Penggunaan bahasa (MCQ) Section B - 20 m MCQ Comprehension Open-ended Section C - 30 m Comprehension Open-ended Paper 3 (80 m) Reading - 20 m Oral - 40 m LC - 20 m

Malay NT	3G1	Paper 1 Penulisan Fungsional dan Penggunaan Bahasa dan Kefahaman	Writing Language use Comprehension	Paper 1 (35 m) Section 1 - 10 m Duration: 30 min
				Functional Writing Section 2 - 25 m Duration: 40 min Bahagian A Melengkapkan Teks (5m) Bahagian B Kefahaman MCQ 1 (10m) Bahagian C
		Paper 2 Lisan Paper 3 Kefahaman Mendengar	Reading Oral Listening	Kefahaman MCQ 2 (10m) Paper 2 (45m) Reading (15m) Oral (30m) Paper 3 (20m) LC
Tamil Express	3G3	Paper 1 Email: Informal and Formal Essay: Narrative and Expository Paper 2:	Writing Language use Comprehension	Paper 1 (60m) Duration: 2 hrs Section A: Email Writing - 20 m (Choose 1 out of 2 qs) Section B: Essay Writing - 40 m (Choose 1 out of 3 qs) Paper 2 (70 m): 1hr 30
		Grammar, Vocabulary Comprehension Paper 3: Oral and Aural	Reading, Speaking and Listening	Paper 3 (70 m) Reading - 10 m Oral - 40 m LC - 20 m

Tamil NA	3G2	Paper 1 Email Writing (Formal and informal)	Writing	Paper 1 (60 m) Duration: 2 hr
		Essay: Narrative Expository		Section A - 20 m Email writing (informal/(formal) (choose 1 out of 2 qs)
				Section B - 40 m Essay Writing (choose 1 out of 3 qs)
		Paper 2 Grammar (Idioms, Error editing, close passage,	Language use	Paper 2 (60 m) Duration: 1hr 30 min
		Vocabulary Comprehension)	Comprehension	Section A - 5 m Idioms Phrases (MCQ)
				Section B - 5 m Close passage
				Section C - 10 m Error editing
		Donas 2		MCQ Comprehension - 10m Comprehension Open- ended 30m
		Paper 3 Reading Oral Listening Comprehension	Reading Oral Listening	Paper 3 (80 m) Reading - 20 m Oral - 40 m LC - 20 m
Tamil NT	3G1	Paper 1 Functional Writing, Grammar, Vocabulary Comprehension	Writing, Language use Comprehension	Paper 1 (35 m) Duration: 1 hr 10 min 1. Functional writing (10m) Grammar/ Vocabulary/ Idioms 2. Comprehension (25m)
		Paper 2: Oral	Reading and Conversational	<u>Paper 2 (45 m)</u> Reading - 15m Oral - 30 m
		Paper 3: Aural	Listening	Paper 3: (20 m) LC - 20 m