Yio Chu Kang Secondary School 2022 Mid-Year Examination



Sec 4E5N	Subject: English		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Paper 1: Writing	Paper 1 (1 h 50 min)	<u>Total: 70 marks (45%)</u>
	Editing	Section A	10 marks
	Situational Writing	Section B	30 marks
	Continuous Writing	Section C (Choose 1 out of 4)	30 marks
	Paper 2: Comprehension	Paper 2 (1 h 50 min)	Total: 50 marks (45%)
	Text 1: Visual Text	Section A	5 marks
	Text 2: Narrative Text	Section B	20 marks
	Text 3: Information Text	Section C	25 marks
	Paper 3: Listening	Paper 3 (approximately 45 min)	30 marks (10%)
	Paper 4: Oral Communication	Paper 4 (approximately 20 min)	Total: 30 marks
	Reading Aloud	Part 1	10 marks
	Spoken Interaction	Part 2	20 marks
			(marks will be used for End of
			Year Exam calculation)

ec 4E5N	Subject: Mathematics		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Numbers and Algebra	Paper 1 (2 h)	80 marks (50%)
	- Numbers and their operations		
	- Ratio and Proportion	Paper 2 (2 h 30 m)	100 marks (50%)
	- Percentage		
	- Rate and Speed	Answer all Questions for both Paper 1 and Paper 2	
	- Algebraic expressions and Formulae		
	- Functions and Graphs		
	- Equations and Inequalities		
	- Set Language and Notation		
	- Matrices		
	- Problems in Real World Context		
	Geometry and Measurement		
	- Angles, Triangles and Polygons		
	- Congruence and Similarity		
	- Properties of Circles		
	- Pythagoras Theorem and Trigonometry		
	- Mensuration		
	- Coordinate Geometry		
	- Problems in Real World Context		
	Statistics and Probability		
	- Data Analysis		
	- Probability		

Sec 4E5N	Subject: 5076/5078 Science(Chemistry)		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Paper 1 & 3	Paper 1 (30 min)	Total: 20 marks
	Chapter 1: Kinetic Particle Theory	20 MCQ	
	Chapter 2: Measurement and Experimental Techniques		
	Chapter 3: Separation and Purification	Paper 3 (1h 15 min)	Total: 65 marks
	Chapter 4: Elements, Compounds and Mixtures	Section A - Structured Questions	45 marks
	Chapter 5: Atomic Structure		10
	Chapter 6: Chemical Bonding	Section B - Free Response Qestions	20 marks
	Chapter 7: Writing Chemical Equations	(Choose 2 out of 3 questions)	
	Chapter 8: The Mole	(0.0000 = 0.000 q.000000,	
	Chapter 9: Chemical Calculations		
	Chapter 10: Acids and Bases		
	Chapter 11: Salts		
	Chapter 12: Oxidation and Reduction		
	Chapter 13: Metals		
	Chapter 14: The Periodic Table		
	Chapter 15: Energy Changes		
	Chapter 16: Speed of Reaction		
	Chapter 17: The atmosphere and Environment		

Sec 4E5N	Subject: Physics		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Textbook	Paper 1 (1 h)	Total: 40 marks (40%)
	Ch 01 Measurement	40 MCQ	
	Ch 02 Kinematics		
	Ch 03 Forces	Paper 2 (1 h 45 min)	Total: 80 marks (60%)
	Ch 04 Mass, Weight and Density	Section A	
	Ch 05 Turning Effect of Forces	Structured Qns	50 marks
	Ch 06 Energy, Work and Power		
	Ch 07 Pressure	Section B	
	Ch 08 Temperature	One data-based Qn & One compulsory Qn	20 marks
	Ch 09 Kinetic Model of Matter	One Either / Or Qn	10 marks
	Ch 10 Transfer of Thermal Energy		
	Ch 11 Thermal Properties of Matter		
	Ch 12 Light		
	Ch 13 Waves		
	Ch 14 Electromagnetic Waves		
	Ch 15 Sound		
	Ch 16 Static Electricity		
	Ch 17 Current Electricity		
	Ch 18 D.C. Circuits		
	Ch 19 Practical Electricity		
	Ch 20 Magnetism		

Sec 4E5N	Subject: Science (Physics) 5076		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Textbook	Paper 1 (30 min)	Total: 20 marks (11.8%)
	1. Measurement	20 MCQ	
	2. Kinematics		
	3. Forces & Pressure		
1	4. Mass, Weight and Density	Paper 2 (1 h 15 min)	Total: 65 marks (38.2%)
	5. Turning Effect of Forces	Section A	
	6. Energy, Work and Power	Structured Qns	45 marks
	7. Kinetic Model of Matter		
	8. Transfer of Thermal Energy	Section B	
	9. Thermal Properties of Matter	Choose 2 out of 3 questions	20 marks
	10. Light		
	11. Waves		
	12. Electromagnetic Waves		
	13. Sound		
	14. Static Electricity		
	15. Current Electricity		

Sec 4E5N	Subject: Science (Biology)		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Textbook	Paper 1 (30 min)	Total: 20 marks (11.8%)
	Ch 02 Cells	20 MCQ	
	Ch 03 Movement of Substances		
	Ch 04 Nutrients		
	Ch 05 Enzymes	Paper 4 (1 h 15 min)	Total: 65 marks (38.2%)
	Ch 06 Nutrition in Humans	Section A	
	Ch 07 Nutrition in Plants	Structured Qns	45 marks
	Ch 08 Transport in Humans		
	Ch 09 Transport in Plants	Section B	
	Ch 10 Respiration in Humans	Choose 2 out of 3 questions	20 marks
	Ch 11 Nervous Systems		
	Ch 12 The Human Eye		
	Ch 13 Hormones		
	Ch 14 Reproduction in Plants		
	Ch 15 Reproduction in Humans		

Sec 4E	Subject: Biology		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Textbook	<u>Paper 1 (1 h)</u>	Total: 40 marks (40%)
	Ch 02 Cells	40 MCQ	
	Ch 03 Movement of Substances		
	Ch 04 Nutrients		
	Ch 05 Enzymes	Paper 2 (1 h 45 min)	Total: 80 marks (60%)
	Ch 06 Nutrition in Humans	Section A	
	Ch 07 Nutrition in Plants	Structured Qns	50 marks
	Ch 08 Transport in Humans		
	Ch 09 Transport in Plants	Section B	
	Ch 10 Respiration in Humans	One data-based Qn & One compulsory Qn	20 marks
	Ch 11 Excretion in Humans	One Either / Or Qn	10 marks
	Ch 12 Homeostasis		
	Ch 13 The Nervous System		
	Ch 14 The Human Eye		
	Ch 15 Hormones		
	Ch 16 Cell Division		
	Ch 17 Reproduction in Plants		

Sec 4E	Subject: Chemistry		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Chapter 1:Kinetic Particle Theory	Paper 1 (1 h)	Total: 40 marks (40%)
	Chapter 2:Measurement and Experimental Techniques	40 MCQ	
	Chapter 3:Separation and Purification		
	Chapter 4:Elements, Compounds and Mixtures		
	Chapter 5:Atomic Structure	Paper 2 (1 h 45 min)	Total: 80 marks (60%)
	Chapter 6:Ionic Bonding	Section A	
	Chapter 7:Covalent and Metallic Bonding	Structured Qns	50 marks
	Chapter 8:Writing Chemical Equations		
	Chapter 9:The Mole	Section B	
	Chapter 10:Chemical Calculations	One data-based Qn & One compulsory Qn	20 marks
	Chapter 11:Acids and Bases	One Either / Or Qn	10 marks
	Chapter 12:Salts		
	Chapter 13:Oxidation and Reduction		
	Chapter 14:Metals		
	Chapter 15:Electrolysis		
	Chapter 16:The Periodic Table		
	Chapter 17:Energy Changes		
	Chapter 18:Speed of Reaction		
	Chapter 19:Ammonia		
	Chapter 20:The Air and Atmosphere		

Sec 5N	Subject: Art		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Not Applicable	Paper 1 (Coursework in Semester 1)	<u>Total: 100 marks (60%)</u>
		Class Assignments	
	Drawing and Painting via Form and Tonal Values.	<u>Paper 2 (3 hr)</u>	Total: 100 marks (40%)
		1. Question paper is to be given three weeks before	The five assessment domains
		the Examination.	are:
		2. Students are to respond to one of six themes	1. Investigation and
		issued on an A3 sized paper.	Interpretation of Theme (20
		3. Preparatory studies (Research, Sketches, Design	marks)
		Layout, Mock up of final work) of three to five A3	2. Exploration and
		sized sheets of paper must be submitted together	Development of Theme (20
		with the final work for assessment.	marks)
			3. Aesthetic Qualities (20
			marks)
			4. Control of Materials and
			Technical Processes (20 marks)
			5. Personal Response (20

Sec 4E	Subject: Design and Technology (7059)		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Design Technology - Structures -Mechanisms -Electronics	Paper 1 (2 hr) One case-based question based mainly on the Design content section Three design application questions relating to structures, mechanisms and electronics from the	Total: 80 marks (40%) Design content: 26 marks Design application questions relating to
		Technolgy section; one question on each area	Structures: 18 marks Mechanisms: 18 marks Electronics: 18 marks
	Not Applicable.	Paper 2 (Coursework in Semester 1) Design Project	<u>Total: 100 marks (60%)</u>

Sec 4E5N	Subject: Food and Nutrition		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Chap 1: Proteins	Paper 1 (2hr)	Total: 100 marks (40%)
	Chap 2: Carbohydrates	Section A: MCQ.	Section A: 15 marks
	Chap 3: Fats	Section B: short-answer-type questions and data-	Section B: 55 marks
	Chap 4: Vitamins	response-type questions.	Section C: 30 marks
	Chap 5: Minerals	Section C: Open-ended type questions.	
	Chap 6: Water and Dietary Fibre		
	Chap 7: Diet and Health Problems		
	Chap 8: Diet and Meal Planning		
	Chap 9: Meal Analysis		
	Chap 10: Sustainable Food Consumption		
	Chap 11: Preparation and Cooking of Food		
	Chap 13: Reactions in Food during Preparation and Cooking		
	Not Applicable	Paper 2 (Coursework in Semester 1) Assignment	100 marks (60%)

Sec 4E5N	Subject: Humanities (History)		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Sec 3 Chapter 1: Impact of World War I in Europe	Duration: 1 h 40 m	Section A - 30 marks
	Sec 3 Chapter 2: Stalin's Soviet Union	Section A Source-based Question	Section B - 20 marks
	Sec 3 Chapter 3: Hitler's Germany	(5 sub-questions)	
	Sec 3 Chapter 4: Outbreak of World War II in Europe	Section B Structured Essay Question	
	Sec 3 Chapter 5: Germany's defeat in World War II	(2 sub-questions)	
	Sec 3 Chapter 6: Outbreak of World War II in the Asia Pacific		
	Sec 3 Chapter 7: Japan's defeat in World War II		
	Sec 4 Chapter 1: Reasons for the Cold War in Europe		
	Sec 4 Chapter 2: The Korean War		
	Sec 4 Chapter 3: The Cuban Missile Crisis		
	Sec 4 Chapter 4: The end of the Cold War		

Sec 4E5N	Subject: Humanities (Social Studies)		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Chapter 1 -What does it mean for me to be a citizen of my country? Chapter 2 - How do we decide what is good for society? Chapter 3 - How can we work for the good of society? Chapter 4 - What is diversity? Chapter 5 - Why is there greater diversity in Singapore now? Chapter 6 - What are the experiences and effects of living in a diverse society? Chapter 7 - How can we respond in a diverse society? Chapter 8 - What does it mean to live in a globalised world? Chapter 9 - How do we respond to tensions arising from some economic impacts of globalisation? Chapter 10 - How do we respond to tensions arising from some cultural impacts of globalisation? Chapter 11 - How do we respond to tensions arising from some security impacts of globalisation?	Paper 1 (1h 45 min) Section A Source-based Question (5 sub-questions) Section B Structured Reponse Question (2 sub-questions)	Total: 50 marks (50%) Section A - 35 marks Section B - 15 marks

Sec 4E5N	Subject: Humanities (Geography)		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Sec 3: Chapter 1 - Living with tectonic hazards	Duration: 1h 40 mins	Total: 50 marks (100%)
	Sec 3: Chapter 2 - Variable weather and changing climate	Section A - Structured Questions (Geographical	Section A: 13 marks (26%)
	Sec 3: Chapter 3 - Geographical skills and investigations	Investigations) based on the topic of Global Tourism	Section B: 12 marks (24%)
	Sec 4: Chapter 1 - Global Tourism	OR Variable Weather and Changing Climate.	Section C: 25 marks (50%)
	Sec 4: Chapter 2 - Food Resources	(Choose 1 out of 2 questions)	
		Section B - Structured question will be set based on the topic of Global Tourism OR Variable Weather and Changing Climate. (Choose 1 out of 2 questions)	
		Section C - Structured Questions based on the topic of Living with Tectonic Hazards AND/OR Food Resources. (Choose 1 out of 2 questions)	

Sec 4E5N	Subject: MTL		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
Chinese/Malay	Paper 1 - Writing	Paper 1 (2 h)	Total: 60 marks (30%)
/Tamil	Email (Informal/Formal),	Section A (Choose 1 question)	20 marks
	Descriptive, Narrative, Expository	Section B (choose 1 question)	40 marks
Chinese	Paper 2 - Language & Comprehension	Paper 2 (1 hour 30 min)	<u>Total: 70 marks (35%)</u>
	Cloze Passage	Answer all questions.	
	Objective Comprehension - Multi Choice	Section A - MCQ	10 marks
	Subjective Comprehension	Section B - MCQ	20 marks
		Section C - OE	40 marks
Malay/Tamil	Paper 2 - Language & Comprehension	Paper 2 (1 hour 30 min)	<u>Total: 70 marks (35%)</u>
	Grammer	Answer all questions.	
	Comprehension - Graphic Stimulus	Section A	30 marks
	Subjective Comprehension	Section B	10 marks
		Section C	30 marks
Chinese/Malay	Paner 3 - Oral	Paper 2 (15 min)	Total: 50 marks (25%)
/Tamil	Paper 3 - Listening Comprehension	Paper 3 (30 min)	Total: 20 marks (10%)
•	Paper 1 - Writing	Paper 1 (2 h)	Total: 80 marks (40%)
riigilei Ciliilese	Paper 2 - Language & Comprehension	Paper 2 (2 h) - Answer all questions.	Total: 80 marks (40%)
	Paper 3 - Oral	Paper 2 (approximately 20 mins)	Total: 40 marks (20%)
Chinese B	Paper 1 - Writing	Paper 1 (50 min) - Computer-based	Total: 20 marks (20%)
ennese B	Email or Picture Composition	Choose 1 question	10tan 20 marks (2070)
	Paper 2 - Language & Comprehension	Paper 2 (1 h) - MCQ	<u>Total: 30 marks (30%)</u>
	Grammar	Section A	10 marks
	Comprehension - Graphic Stimulus	Section B	10 marks
	Objective Comprehension	Section C	10 marks
	Paper 3 - Oral	Paper 3 (15 min)	Total: 30 marks (30%)
	Reading	Section A	10 marks
	Interactive Conversation (video)	Section B	20 marks
	Paper 3 - Listening Comprehension	Paper 3 (30 min) - MCQ	Total: 20 marks (20%)
	10 questions		

Sec 4E5N	Subject: Additional Mathematics		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Sec 3 Work	Paper 1 (2h 15 mins)	<u>Total: 90 marks (50%)</u>
	- Chpt 1 Quadratic Functions	Answer all Questions	
	- Chpt 2 Equations & Inequalities		
	- Chpt 3 Surds		
	- Chpt 4 Polynomials, Cubic Equations & Partial Fractions	Paper 2 (2h 15 min)	<u>Total: 90 marks (50%)</u>
	- Chpt 5 Binomial Theorem & its Applications	Answer all Questions	
	- Chpt 6 Exponential & Logarithmic Functions		
	- Chpt 7 Coordinate Geometry		
	- Chpt 8 Linear Law		
	Sec 4 Work		
	- Chpt 9 Trigonometric Functions & Graphs		
	- Chpt 10 Trigonometric Equations & Identities		
	- Chpt 11 Gradients, Derivatives & Differentiation Techniques		
	- Chpt 12 Applications of Differentiations		
	- Chpt 13 Differentiation of Trigonometric, Exponential &		
	Logarithmic Functions & its Applications		

ec 4E5N	Subject: POA		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Chapter 1: Introduction to Accounting	Paper 1 (1 h)	40%
	Chapter 2: Accounting Information System	3-4 Compulsory Structured Questions	
	Chapter 3: Elements of Financial Statements and		
	the Accounting Equation		
	Chapter 4: Double-entry Recording		
	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		
	Chapter 10: Trade Receivables		
	Chapter 11: Non-current Assets		
	Chapter 12: Trade Payables		
	Chapter 13: Long-term Borrowings		
	Chapter 14: Equities		
	Chapter 15: Correction of Errors		
	Chapter 17: Scenario-based Questions		
	Chapter 1: Introduction to Accounting		60%
	Chapter 2: Accounting Information System		
	Chapter 3: Elements of Financial Statements and		
	the Accounting Equation		
	Chapter 4: Double-entry Recording		
	Chapter 5: Trial Balance and Financial Statements		
	Chapter 6: Revenue and Other Income		
	Chapter 7: Cost of Sales and Other Expenses	Paper 2 (2 h)	
	Chapter 8: Cash	Answer 4 compulsory structured questions.	
	Chapter 9: Inventories	One question requires the preparation of financial	
	Chapter 10: Trade Receivables	statements for a business for one financial year. (20	
	Chapter 11: Non-current Assets	marks)	
	Chapter 12: Trade Payables	• A scenario-based question (7 marks) will be part of	
	Chapter 13: Long-term Borrowings	one of	
	Chapter 14: Equities	the 3 remaining questions.	
	Chapter 15: Correction of Errors	2	
	Chapter 17: Scenario-based Questions		

Sec 4E	Subject: Exercise & Sports Science		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	There are five areas of study on which the assessment is based:	Paper 1 (2 hours. Answer all the questions in Section	Paper (100% - 80 Marks)
	Exercise Physiology	A, B and C)	Section A - 20 Marks
	Biomechanics		Section B - 40 Marks
	Sports Psychology	Section A	Section C - 20 Marks
	Sports Sociology	Variety of item types e.g. Multiple-choice Questions,	
	Motor Learning and Development	Matching, Drag and Drop, Checking of Boxes and Fill	
		in the Blanks.	
		Section B	
		Short answer and Structured Questions based on	
		texts and pictures.	
		Section C Structured Questions based on ONE video.	

Sec 4E	Subject: Pure Geography		
	Topic tested in Mid-Year Exam	Format of Paper	Marks (Weightings)
	Sec 3: Chapter 1 - Coasts	Paper 1	Paper 1 (50 marks)
	Sec 3: Chapter 2 - Living with tectonic hazards	Section A - Structured Questions (Geographical	Section A (25m)
	Sec 3: Chapter 3 - Variable weather and changing climate	Investigations) based on the topic of Coasts and	Section B (25m)
	Sec 3: Chapter 4 - Geographical skills and investigations	Global Tourism	
	Sec 4: Chapter 1 - Global Tourism	(Choose 1 out of 2 questions)	Paper 2 (50 marks)
	Sec 4: Chapter 2 - Food Resources		Section A (25m)
	Sec 4: Chapter 3 - Heath and Diseases	Section B - Structured question will be set based on	Section B (25m)
		the topic of Coasts and Global Tourism. (Choose 1	
		out of 2 questions)	
		Paper 2	
		Section A - Structured Questions based on the topic	
		of Living with Tectonic Hazards and Variable Weathe	r
		and Changing Climate	
		(Choose 1 out of 2 questions)	
		Section B - Structured Questions based on the topic	
		of Food Resources and Health and Diseases (Choose 1 out of 2 questions)	