

Yio Chu Kang Secondary School
2022 End OF Year Examination



Sec 3E	Subject: English		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Paper 1: Writing Editing Situational Writing Continuous Writing	Paper 1 (1 h 50 min) Section A Section B Section C (Choose 1 out of 4)	Total: 70 marks (35%) 10 marks 30 marks 30 marks
	Paper 2: Comprehension Texts 1 and 2: Visual Text Text 3: Narrative Text Text 4: Non-narrative Text	Paper 2 (1 h 50 min) Section A Section B Section C	Total: 50 marks (35%) 5 marks 20 marks 25 marks
	Paper 3: Listening	Paper 3 (approximately 45 min)	30 marks (10%)
	Paper 4: Oral Communication Planned Response Spoken Interaction	Paper 4 (approximately 20 min) Part 1 Part 2	Total: 30 marks (20%) 15 marks 15 marks

Sec 3E	Subject: Mathematics		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Secondary Three Topics: Chapter 1 Quadratic and Fractional Equations Chapter 2 Simultaneous Linear Inequalities Chapter 3 Indices and Standard Form Chapter 4 Coordinate Geometry Chapter 6 Further Trigonometry Chapter 7 Applications of Trigonometry Chapter 8 Arc Lengths, Sector Areas and Radian Measures Chapter 9 Congruence and Similarity Tests Chapter 10 Area and Volume of Similar Figures and Solids Lower Secondary Topics (TYS): Topic 1 Numbers and their Operations Topic 2 Ratio and Proportion Topic 3 Percentage Topic 4 Rate and Speed Topic 5 Algebraic Expressions and Formulae Topic 11 Angles and Triangles (excluding Polygons) Topic 15 Mensuration	Paper 1 (2 h 15 min) There will be about 25 short answer questions. Paper 2 (2 h 15 min) There will be 10 to 11 questions of varying marks and lengths. The last question in this paper will focus specifically on applying mathematics to a real-world scenario.	Total: 90 marks (50%) Total: 90 marks (50%)

Sec 3E	Subject: Biology		
		Format of Paper	Marks (Weightings)
	1. Cell Structure and its Function 2. Movement of Substances 3. Biological Molecules (Nutrients and Enzymes) 4. Nutrition in Humans 5. Nutrition in Plants 6. Transport in Flowering Plants 7. Transport in Humans 8. Respiration in Humans	Paper 1 (45 min) 30 MCQ Paper 2 (1 h 30 min) Section A Section B (1 compulsory question and 1 either/or question)	Total: 30 marks (30%) 30 marks Total: 70 marks (70%) 50 marks 20 marks

Sec 3E	Subject: Chemistry		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	1. Kinetic Particle Theory 2. Measurement and Experimental Techniques 3. Separation and Purification 4. Elements, Compounds and Mixtures 5. Atomic Structure 6. Ionic bonding 7. Covalent and Metallic Bonding 8. Writing Chemical Equations 9. The Moles 10. Chemical Calculations 11. Acids and Bases 12. Salts + Chemical Analysis 13. Metals	Paper 1 (45 min) 30 MCQ Paper 2 (1 h 30 min) Section A Section B (1 compulsory question and 1 either/or question)	Total: 30 marks (30%) 30 marks Total: 70 marks (70%) 50 marks 20 marks

Sec 3E	Subject: Physics		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Textbook Chapter 01 Measurement Chapter 02 Kinematics Chapter 03 Forces Chapter 04 Mass, Weight and Density Chapter 05 Turning Effect of Forces Chapter 06 Energy, Work and Power Chapter 07 Pressure Chapter 08 Temperature Chapter 09 Kinetic Model of Matter Chapter 10 Transfer of Thermal Energy Chapter 11 Thermal Properties of Matter	Paper 1 (45 min) 30 MCQ Paper 2 (1 h 30 min) Section A Section B (1 compulsory question and 1 either/or question)	Total: 30 marks (30%) 30 marks Total: 70 marks (70%) 50 marks 20 marks

Sec 3E	Subject: Science (Physics)		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Textbook Ch 1. Measurement Ch 2. Kinematics Ch 3. Forces and Pressure Ch 4. Mass, Weight and Density Ch 5. Turning Effect of Forces Ch 6. Energy, Work and Power Ch 7. Kinetic Model of Matter Ch 8. Transfer of Thermal Energy Ch 9. Thermal Properties of Matter	Paper 1 (30 min) 20 MCQ Paper 2 (1 h 15 min) Section A: Structured Qns Section B: Choose 2 out of 3 questions	Total: 20 marks (13.75%) Total: 65 marks (36.25%) 45 marks 20 marks

Sec 3E	Subject: Science (Chemistry)		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	1. Kinetic Particle Theory 2. Measurement and Experimental Techniques 3. Separation and Purification 4. Elements, Compounds and Mixtures 5. Atomic Structure 6. Chemical bonding 7. Writing Chemical Equations 8. The Mole 9. Chemical Calculations 10. Acids and Bases 11. Salts (exclude Qualitative Analysis)	Paper 1 (30 min) 20 MCQ Paper 3 (1 h 15 min) Section A: Structured Qns Section B: Choose 2 out of 3 questions	Total: 20 marks (13.75%) Total: 65 marks (36.25%) 45 marks 20 marks

Sec 3E	Subject: Science (Biology)		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	1. Cell Structure and its Function 2. Movement of Substances 3. Biological Molecules (Nutrients and Enzymes) 4. Nutrition in Humans 5. Nutrition in Plants 6. Transport in Flowering Plants 7. Transport in Humans 8. Respiration in Humans	Paper 1 (30 min) 20 MCQ Paper 4 (1 h 15 min) Section A: Structured Qns Section B: Choose 2 out of 3 questions	Total: 20 marks (13.75%) Total: 65 marks (36.25%) 45 marks 20 marks
Sec 3E	Subject: MTL		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
Chinese/ Malay/ Tamil	Paper 1 - Writing Email (Informal/Formal), Descriptive, Narrative, Expository	Paper 1 (2 h) Section A (Choose 1 question) Section B (choose 1 question)	Total: 60 marks (30%) 20 marks 40 marks
Chinese	Paper 2 - Language & Comprehension Grammar / Cloze Passage Objective Comprehension - Multi Choice Subjective Comprehension	Paper 2 (1 h 30 min) Section A: FIB / MCQ Section B: MCQ Section C: OE	Total: 70 marks (35%) 24 marks 16 marks 30 marks
Malay/ Tamil	Paper 2 - Language & Comprehension Grammar / Cloze Passage Comprehension - Graphic Stimulus Subjective Comprehension	Paper 2 (1 h 30 min) Section A: FIB Section B: MCQ Section C: OE	Total: 70 marks (35%) 30 marks 10 marks 30 marks
Chinese/ Malay/ Tamil	Paper 3 - Listening Comprehension 10 questions	Paper 3 (30 min) MCQ	Total: 20 marks (10%)
Chinese/ Malay/ Tamil	Paper 3- Oral Reading Conversation based on video stimulus	Paper 3- Oral (Approximately 20min) Reading Conversation based on video stimulus	Total: 50 marks (25%) 10 marks 40 marks
Chinese B	Paper 1 - Writing Email or Picture Composition	Paper 1 (50 min) - Computer-based Choose 1 question	Total: 20 marks (35%)
	Paper 2 - Language & Comprehension Grammar Comprehension - Graphic Stimulus Objective Comprehension	Paper 2 (1 h) - MCQ Section A Section B Section C	Total: 30 marks (45%) 10 marks 10 marks 10 marks
	Paper 3 - Listening Comprehension 10 questions	Paper 3 (30 min) MCQ	Total: 20 marks (20%)
	Paper 3- Oral Reading Conversation based on video stimulus	Paper 3- Oral (Approximately 20min) Reading Conversation based on video stimulus	Total: 30 marks (30%) 10 marks 20 marks
Sec 3E	Subject: Additional Mathematics		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 1: Quadratic Equations Chapter 2: Equations and Inequalities Chapter 3: Surds Chapter 4: Polynomials, Cubic Equations and Partial Fractions Chapter 6: Exponential and Logarithmic Functions Chapter 7: Coordinate Geometry Chapter 9: Trigonometric Functions and Graphs Chapter 10: Trigonometric Equations and Identities	Paper 1 (2 h 15 min) There will be 12– 14 questions of varying marks and lengths.	90 marks (100%)

Sec 3E	Subject: Art		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Not Applicable	Paper 1 (Class Assignments in Semester 2)	Total: 100 marks (30%)
	Paper 2 Drawing and Painting	Paper 2 Drawing & Painting (3 h) 1. Question paper is to be given three weeks before the Examination. 2. Students are to respond to one of the themes issued on an A3 sized paper. 3. Preparatory studies (Research, Sketches, Design Layout, Mock up of final work) of three to five A3 sized sheets of paper must be submitted together with the final work for assessment.	Total: 100 marks (70%) 1. Investigation and Interpretation of Theme (20 marks) 2. Exploration and Development of Theme (20 marks) 3. Aesthetic Qualities (20 marks) 4. Control of Materials & Technical Processes (20 marks) 5. Personal Response (20 marks)
Sec 3E	Subject: Design and Technology		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Section 1: Design Section 2: Technology Structures Mechanisms Electronics	Paper 1 (2 h) Question 1 requires knowledge application of Section 1 Design. Question 2 to 4 require knowledge application of Section 2 Technology - specifically structures, mechanisms and electronics.	Total: 80 marks (40%) Question 1: 26 marks Question 2 to 4: 54 marks
	Not Applicable.	Paper 2 (Coursework in Semester 2) Design Project	Total: 100 marks (60%)
Sec 3E	Subject: Nutrition and Food Science		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 1: Proteins Chapter 2: Carbohydrates Chapter 3: Fats Chapter 7: Diet and Health Problems Chapter 8: Diet and Meal Planning Chapter 9: Meal Analysis Chapter 13: Reactions in Food during Preparation and Cooking Chapter 14: Sensory Evaluation of Food	Paper 1 (2 h) Section A: multiple choice questions Section B: short-answer-type questions and data-response-type questions Section C: open-ended questions	Total: 100 marks (40%) Section A: 15 marks Section B: 55 marks Section C: 30 marks
	Not Applicable.	Paper 2 (Coursework in Semester 2)	Total: 100 marks (60%)
Sec 3E	Subject: Geography		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 1: Living with Tectonic Hazards (Gateway 1, 2 & 3) Chapter 2: Variable weather & Changing Climate (Gateway 1 & 2) Chapter 3: Geographical Skills & Investigations	Duration: 1 h 40 min Section A: Geographical Investigation Section B: Structured Qns on Weather & Climate Section C : Structured Qns on Plate Tectonics	Total: 50 marks (50%) Section A: 13 marks Section B: 12 marks Section C: 25 marks
Sec 3E	Subject: History		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Sec 3 Chapter 2: Stalin's Soviet Union Sec 3 Chapter 3: Hitler's Germany Sec 3 Chapter 4: Outbreak of World War II in Europe Sec 3 Chapter 5: Germany's Defeat	Duration: 1 h 40 min Section A: Source-based Case Study Section B: Structured Essay Questions (Choose 1 out of 2 questions)	Total: 50 marks (50%) Section A: 30 marks Section B: 20 marks

Sec 3E	Subject: Social Studies		
	Topic tested in EOY 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? Skills tested: Simple inference, inference with purpose, comparison, reliability, evaluative and SRQ	<u>Duration: 1 h 45 min</u> Section A Source-based Question (5 sub-questions) Section B Structured Response Question (2 sub-questions)	<u>Total: 50 marks (50%)</u> Section A: 35 marks Section B: 15 marks
Sec 3E	Subject: POA		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 1: Introduction to Accounting Chapter 2: The Accounting Information System Chapter 3: Elements of the 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	<u>Paper 1 (1 h)</u> 4 questions. Answer ALL questions <u>Paper 2 (2 h)</u> 4 questions. Answer ALL questions	<u>Total: 40 marks (40%)</u> <u>Total: 60 marks (60%)</u>
Sec 3E	Subject: Pure Geography		
	Topic tested in EOY Exam	Format of Paper	Marks (Weightings)
	Chapter 1: Coasts Chapter 2: Living with Tectonic Hazards Chapter 3: Variable weather & Changing Climate Chapter 4: Geographical Skills & Investigations	<u>Paper 1: 1h 40 mins</u> <u>Structured questions on GI (Coast)</u> <u>Structured questions on Coasts</u> Paper 2: 1h Structured questions on: - Living with Tectonic Hazards - Variable Weather and Changing Climate	<u>Paper 1: 50 marks</u> <u>Paper 2: 30 marks</u>