

**Gan Eng Seng School**  
**End of Year Examination 2022**  
**Year 3 Normal Academic**

<b>Subject</b>	<b>Format</b>	<b>Topics</b>	<b>Duration</b>
English Language	<p>PAPER ONE [70] - 35%</p> <p>Writing</p> <p>Section A: Editing [10]</p> <p>Candidates identify and edit grammatical errors in a short written text.</p> <p>Section B: Situational Writing [30]</p> <p>Candidates write 180–250 words on a given situation which will involve viewing a visual text.</p> <p>Section C: Continuous Writing [30]</p> <p>Candidates write 250–400 words on one of four topics set.</p>		1 h 50 min
	<p>PAPER TWO [50] - 35%</p> <p>Comprehension</p> <p>Section A [5]</p> <p>Candidates respond to questions based on Text 1, a visual text.</p> <p>Section B [20]</p> <p>Candidates respond to a variety of questions based on Text 2, which is a</p>		1 h 50 min

	<p>narrative or a recount.</p> <p>Section C [25] Candidates respond to a variety of questions based on Text 3, a non-narrative text, and write an 80-word response to a summary writing task.</p>		
	<p>PAPER THREE [30] - 10%</p> <p>Listening Section A [22] Candidates respond to a variety of listening tasks based on a number of audio recordings, which candidates will hear twice.</p> <p>Section B [8] Candidates listen to an audio recording and do a simple note-taking exercise. Candidates will hear the recording only once.</p>		45 min
	<p>PAPER FOUR [30] - 20%</p> <p>Oral Communication The two parts in this paper are thematically linked.</p> <p>Part 1: Planned Response [15] Candidates plan and deliver a response to a video clip and accompanying prompt presented</p>		20 min (including 10 min of preparati on time)

	<p>on a computer screen.</p> <p>Part 2: Spoken Interaction [15] Candidates engage in a discussion with the Examiners on a topic based on the same video clip.</p>		
Mathematics	<p>Paper 1: [70 Marks] About 23 short answer questions. Candidates are to answer ALL questions. The questions include 5-6 marks questions assessing the mathematical processes of reasoning, communication, connections, modelling and higher order thinking skills. Such questions will appear in Paper 1 or Paper 2. (OLP)</p>	<p>Sec 3 topics Chapter 1 Algebraic Manipulation Chapter 2 Quadratic Equations Chapter 3 Graphs of Quadratic Functions Chapter 4 Indices Chapter 5 Congruence and Similarity Chapter 6 Coordinate Geometry Chapter 7 Graphs Of Power Functions and Exponential Functions (Until 7.3 Gradients of tangents) Chapter 8 Trigonometric Ratios Chapter 9 Further Trigonometry</p> <p>Include Sec 1 &amp; 2 topics Simple Inequalities Solving simultaneous linear equations Expansion and Factorisation of algebraic expressions Map scales Volume and surface area of prisms, pyramids, cones, spheres and composite figures</p>	<b>2 h</b>

	<p>Paper 2: [70 Marks]</p> <p>Section A – Answer ALL questions Contains 9 – 10 questions of varying length. The last question of 7 to 8 marks in this section focuses specifically on applying mathematics to a real-world scenario.</p> <p>Section B – Answer 1 out of 2 questions Questions in Section B will be based on the content below: Pythagoras’ theorem and trigonometry: * use of sine rule and cosine rule for any triangle Each question carries the same number of marks, that is, either 7 or 8 marks. (TLK)</p>	<p>Probability of single events Statistics – Mean, mode and median Primes, Highest Common Factor and Lowest Common Multiple Percentage Ratio, rates (including speed) Include direct and inverse proportion Geometry Number patterns</p>	<p><b>2 h</b></p>
<p>Additional Mathematics</p>	<p>[80 Marks] About 10 – 12 questions of varying marks and lengths. Candidates are to answer ALL questions. The last question of 6-8 marks in this paper focusses specifically on applying mathematics to a real-world scenario.</p>	<p>Chapter 1 Quadratic Functions Chapter 2 Equations and Inequalities Chapter 3 Surds Chapter 4 Polynomials and Partial Fractions Chapter 7 Coordinate Geometry Chapter 8 Circles Chapter 10 Trigonometric Functions Chapter 11 Trigonometric Identities and Equations (Till 11.2 Solving Trigonometric Equations)</p>	<p>2 h</p>

Principles of Accounts	Paper 1: [40 Marks] Candidates are to answer 4 structured questions on the question papers.	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	1 h
	Paper 2: [60 Marks] Candidates are to answer 4 structured questions. One question is on the preparation of financial statements. (20 marks) A scenario-based question (5 marks) will be part of one of the 3 remaining questions. Answers to be written on writing papers.	Chapter 9 Inventories Chapter 11 Non-current assets Chapter 12 Trade payables	2 h
Humanities (Social Studies) (2175/01 OR 2176/01)	Section A (35m) Candidates are to answer all 5 questions.  Section B (15m) Candidates are to answer BOTH questions.	Section A: Source-Based Cse Study (SBCS) Skills tested: 1. Inference 2. Purpose 3. Comparison 4. Reliability 5. Utility  Section B: Structured-Response Question Issue 1: Exploring Citizenship & Governance Chapters 1 - 3 Issue 2: Living in a Diverse Society Chapters 4 - 6	1 h 45 min
Humanities (Geograph)	Structured Essay Questions (2 x 25m) Candidates are to answer BOTH	Topics: 1) Plate Tectonics 2) Weather and Climate	1 h 40 min

y) (2175/02)	compulsory questions.		
Humanities (History) (2176/02)	Section A (Source Based Case Study, 30m) Candidates are to answer all questions. Section B (Structured Essay Questions, 20m) Candidates are to answer ONE OUT OF TWO questions.	Unit 2 Chapters 1-5	1 h 40 min
Design & Technology (7055)	Paper 1 comprises of 3 questions [60 marks] [Weighing 40% of the total marks for the subject] Candidates are required to answer all three questions  Q1 - Design (24 marks) Q2 - Mechanism (18 marks) Q3 - Electronics (18 marks)  Paper 2 - Coursework based (Design Journal) [Weighing 60% of the total for the subject]	<u><a href="#">Item testing on Design:</a></u> - <u><a href="#">Design Method</a></u> - <u><a href="#">Project Management</a></u> - <u><a href="#">Research &amp; Analysis</a></u> - <u><a href="#">Need Definition</a></u> - <u><a href="#">Idea Generation and Development</a></u> - <u><a href="#">Realisation Plan</a></u> - <u><a href="#">Evaluation</a></u> - <u><a href="#">Design &amp; Technology in Society</a></u> - <u><a href="#">Design Communication</a></u> - <u><a href="#">Ergonomics and Anthropometry</a></u>  <u><a href="#">Item testing on 2 technological areas:</a></u> - <u><a href="#">Mechanisms and</a></u> - <u><a href="#">Electronics</a></u>  <u><a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7055_y2_3_sy.pdf">Reference: https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/nlevel/2023syllabus/7055_y2_3_sy.pdf</a></u>	1 h 30 min

<p>*Design &amp; Technology (7059) (For D&amp;T OSS)</p>	<p>Paper 1 comprises of 4 questions [80 marks] [Weighing 60% of the total marks for the subject] Candidates are required to answer all four questions</p> <p>Q1 - Design (26 marks) Q2 - Structure (18 marks) Q3 - Mechanism (18 marks) Q4 - Electronics (18 marks)</p> <p>Paper 2 - Coursework based (Design Journal) [Weighing 40% of the total for the subject]</p>	<p><u>Item testing on Design:</u> - <a href="#">Design Method</a> - <a href="#">Project Management</a> - <a href="#">Research &amp; Analysis</a> - <a href="#">Need Definition</a> - <a href="#">Idea Generation and Development</a> - <a href="#">Design Communication</a> - <a href="#">Ergonomics and Anthropometry</a></p> <p><u>Item testing on 3 technological areas:</u> - <a href="#">Structures</a>, - <a href="#">Mechanisms and</a> - <a href="#">Electronics</a></p> <p>Reference: <a href="https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059_y23_sy.pdf">https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/7059_y23_sy.pdf</a></p>	<p>2 h</p>
<p>Science (Physics) Normal (Academic) 5105</p>	<p>Paper 1: 20 compulsory multiple choice questions [20 marks] Weighting: 40 %</p> <p>Paper 2: Structured and Free Response (Physics) [30 marks] Weighting: 60 % Section A will carry 14 marks and will contain a small number of compulsory structured questions. Section B will carry 16 marks and will contain three structured questions. Candidates are to answer only two out</p>	<ol style="list-style-type: none"> <li>1. Physical Quantities, Units and Measurement</li> <li>2. Kinematics</li> <li>3. Dynamics</li> <li>4. Mass, Weight and Density</li> <li>5. Turning Effect of Forces</li> <li>6. Pressure</li> <li>7. Energy, Work and Power</li> <li>8. Kinetic Model of Matter</li> <li>9. Transfer of Thermal Energy</li> <li>10. Thermal Properties of Matter</li> </ol>	<p>1 h 15 min</p>

	of these three questions.		
Science (Chemistry) Normal (Academic) 5105, 5107	<p>Paper 3: 20 compulsory multiple choice questions [20 marks] Weighting: 40 %</p> <p>Paper 4: Structured and Free Response (Chemistry) [30 marks] Weighting: 60 % Section A will carry 14 marks and will contain a small number of compulsory structured questions. Section B will carry 16 marks and will contain three structured questions. Candidates are to answer only two out of these three questions.</p>	<ol style="list-style-type: none"> <li>1. Kinetic Particle Theory</li> <li>2. Measurement and Experimental Technique</li> <li>3. Elements, Compounds and Mixtures</li> <li>4. Purification and Separation</li> <li>5. Atomic Structure</li> <li>6. Chemical Bonding</li> <li>7. Writing Chemical Equations</li> <li>8. Acids and Bases</li> <li>9. Salts</li> <li>10. The Periodic Table</li> </ol>	1 h 15 min
Science (Biology) Normal (Academic) 5107	<p>Paper 5: 20 compulsory multiple choice questions [20 marks] Weighting: 40 %</p> <p>Paper 6: Structured and Free Response (Biology) [30 marks] Weighting: 60 % Section A will carry 14 marks and will contain a small number of</p>	<ol style="list-style-type: none"> <li>1. Cells</li> <li>2. Movement of Substances</li> <li>3. Nutrients</li> <li>4. Enzymes</li> <li>5. Nutrition in Humans</li> <li>6. Nutrition in Plants</li> <li>7. Transport in Plants</li> </ol>	1 h 15 min



	<p>compulsory structured questions. Section B will carry 16 marks and will contain three structured questions. Candidates are to answer only two out of these three questions.</p>		
Chinese Language	Paper 1 : 电邮 (20 分), 作文 (40 分)	Not Applicable	2 h
	Paper 2 : 综合填空 (10 分), 阅读理解一(20 分), 阅读理解二 (30 分)	Not Applicable	1 h 30 min
	Paper 3 : 听力 (20 分) / 口试 (60 分) : 朗读 20 分, 录像会话 40 分	Not Applicable	30 min / 15 min
Malay Language	Paper 1 : Bahagian A (20 marks): E-mel rasmi / E-mel tidak rasmi. Bahagian B (40 marks): Deskriptif / Ekspositori / Naratif - sambung cerita / Perbincangan	Not Applicable	2 h
	Paper 2 : Bahagian A: Imbuan (10 marks), Peribahasa (5 marks), Melengkapkan teks (5 marks); Bahagian B: Kef.Objektif (10 marks); Bahagian C: Kef. Subjektif (30 marks)	Not Applicable	1 h 30 min
	Paper 3 : Kefahaman Mendengar (20	Not Applicable	30 min / 15 min

	marks); Lisan (60 marks)		
Tamil Language	Paper 1 : <b>மின்னஞ்சல்</b> (20marks) , <b>கட்டுரை</b> (40marks)	Not Applicable	2 h
	Paper 2 : <b>மரபு</b> (5marks), <b>கருத்துமாறா</b> (10marks), <b>அமைப்பு</b> (5marks), <b>தெரிவு</b> (10marks), <b>சுயவிடை</b> (30marks)	Not Applicable	1 h 30 min
	Paper 3 : <b>கேட்டல்</b> (20marks), <b>வாய்மொழி</b> (60marks)	Not Applicable	30 min / 15 min
Nutrition and Food Science (6073)	<p>- Section A: 16marks (multiple choice questions)</p> <p>- Section B: 40 marks (Short-answer-type questions and data response-type question)</p> <p>- Section C: 24 marks (open-ended questions)</p> <p>Candidate to answer all questions. Total= 80marks</p>	<p>Nutrition and health: A. Nutrients, Water and Dietary Fibre</p> <p>Food Literacy A. Food Management -Diet and Meal planning -Meal analysis</p> <p>Food Science A. The science of food preparation and cooking - Preparation and cooking of food</p> <p>B. Reactions in food during preparation and cooking - Methods of cooking - Reactions in food during preparation and cooking</p>	1.5 hours
	* The total marks will be converted into 100%		