

Gan Eng Seng School Preliminary Examination 2023 Year 4 Express			
Subject	Format	Topics	Duration
English Language	PAPER ONE [70] - 35% Writing	All units covered in Sec 1 - 4	1 h 50 min
	PAPER TWO [50] - 35% Comprehension		1 h 50 min
	PAPER THREE [30] - 10% Listening		45 min
	PAPER FOUR [30] - 20% Oral Communication The two parts in this paper may be thematically linked.		20 min (including 10 min of preparation time)
Mathematics 4052	Paper 1: [90 Marks][Weighting: 50%] There will be about 26 short answer questions. Candidates are required to answer all questions.	N1 Numbers and their operations N2 Ratio and Proportion N3 Percentage N4 Rate and Speed N5 Algebraic Expressions and Formulae N6 Functions and Graphs N7 Equations and Inequalities N8 Set Language and Notation N9 Matrices G1 Angles, triangles and polygons G2 Congruence and similarity G3 Properties of Circles G4 Pythagoras' theorem and trigonometry G5 Mensuration G6 Coordinate Geometry G7 Vectors in two dimensions S1 Data handling and analysis S2 Probability For more details, please refer to https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/4052_y23_sy.pdf	2h 15 min
	Paper 2: [90 Marks][Weighting: 50%] There will be 9 to 10 questions of varying marks and lengths. The last question in this paper will focus specifically on applying mathematics to a real-world scenario. Candidates are required to answer all questions		2 h 15 min
Additional Mathematics 4049	Paper 1: [90 Marks][Weighting: 50%] 12 to 14 questions of various marks and lengths, up to 10 marks per question. Candidates are to answer ALL questions.	A1 Quadratic functions A2 Equations and inequalities A3 Surds A4 Polynomials and partial fractions A5 Binomial Expansions A6 Exponential and logarithmic functions G1 Trigonometric functions, identities and equations G2 Coordinate geometry in two dimensions G3 Proofs in plane geometry C1 Differentiation and integration For more details, please refer to https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2023syllabus/4049_y23_sy.pdf	2 h 15 min
	Paper 2: [90 Marks][Weighting: 50%] 9 to 11 questions of various marks and lengths, up to 12 marks per question. Candidates are to answer ALL questions.		2 h 15 min
Humanities (Social Studies) (2272/01 OR 2273/01)	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 (SBSC) Skills tested: 1. Inference 2. Purpose 3. Comparison 4. Reliability 5. Utility 6. Evaluation Section B: Structured-Response Question Issue 1: Exploring Citizenship & Governance Chapters 1 - 3 Issue 2: Living in a Diverse Society Chapters 4 - 7 Issue 3: Being Part of a Globalised World Chapters 8 - 11	1 h 45 min
Humanities (Geography) (2272/02)	Section A (13m) - Geographical Investigations Candidates are to answer one of 2 questions. Section B (12m) - Structured Essay Questions Candidates are to answer one of 2 questions. Section C (25m) - Structured Essay Questions Candidates are to answer one of 2 questions.	Section A: Geographical Investigations Topics: 1. Global Tourism 2. Variable Weather and Climate Section B: Structured Essay Questions Topics: 1. Global Tourism 2. Variable Weather and Climate Section C: Structured Essay Questions Topics: 1. Living with Tectonic Hazards 2. Geography of Food	1 h 40 min
Humanities (History) (2273/02)	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 1-7 (Sec 3 textbook) Unit 3 Chapters 1-24 (Sec 4 textbook)	1 h 40 min

Geography(2236/01)	<p>Section A (Geographical Investigations 25m) The question will be set on a specific topic or combination of topics. The question carries 25 marks. Candidates must answer the question in this section. They are advised to spend 55 minutes on the question.</p> <p>Section B (Structured Essay Questions 25m) One question will be set on a specific topic. One other question will be set on a combination of topics. Each question carries 25 marks. Candidates must answer one question from this section. They are advised to spend 45 minutes on the question.</p>	<p>Section A (Geographical Investigations) Topics: 1. Coasts 2. Global Tourism</p> <p>Section B (Structured Essay Questions) Topics: 1. Coasts 2. Global Tourism</p>	1h 40 min
Geography (2236/02)	<p>Section A (Structured Essay Questions 25m) One question will be set on a specific topic. One other question will be set on a combination of topics. Each question carries 25 marks. Candidates must answer one question from this section. They are advised to spend 45 minutes on the question.</p> <p>Section B (Structured Essay Questions 25m) One question will be set on a specific topic. One other question will be set on a combination of topics. Each question carries 25 marks. Candidates must answer one question from this section. They are advised to spend 45 minutes on the question.</p>	<p>Section A (Structured Essay Questions) Topics: 1. Living with Tectonic Hazards 2. Variable weather & changing climate</p> <p>Section B (Structured Essay Questions) Topics: 1. Food Resources 2. Health & Diseases</p>	1h 30 min
Design & Technology (7059)	<p>Paper 1 Written Examination (2 hours) [40% of the total mark for the subject.]</p> <p>Candidates are to answer all questions. The questions will be design-centric. Question 1 requires knowledge application of Section 1 Design. Question 2 to Question 4 require knowledge application of Section 2 Technology; specifically structures, mechanisms and electronics.</p> <p>The mark allocation is: Question 1 : 26 out of 80 marks Question 2 – 4 : 54 out of 80 marks</p>	<p>Section 1 Design 1 Planning and monitoring your design project 2 Formulating your design brief and specifications 3 Generating and developing your ideas 4 Communicating your proposed design solution 5 Realising the prototype</p> <p>Section 2 Technology 6 Materials 7 Structures 8 Control systems 9 Electronics 10 Mechanisms 11 Workshop Processes</p>	2 h
Art6123	<p>Paper 2: Drawing and Painting [100m] Weighting: 40%</p> <p>Candidates will: - Respond to one of the six themes given - Submit preparatory studies based on given requirements</p>	Not Applicable	3 h
Biology 6093	Paper 1: 40 compulsory multiple choice questions [40 marks] Weighting: 30%	As stated in paper 2	1 h
	<p>Paper 2: Structured and Free Response [80 marks] Weighting: 50%</p> <p>Section A [50 marks]: All structured questions are compulsory. Section B [30 marks]: The first two questions are compulsory questions, one of which will be a data-based question. The last question will be presented in an either/or form.</p>	<p>1. Cell Structure and Organisation 2. Movement of Substances 3. Biological Molecules 4. Nutrition in Humans 5. Nutrition in Plants 6. Transport in Flowering Plants 7. Transport in Humans 8. Respiration in Humans 9. Excretion in Humans</p>	1 h 45 min
	<p>Paper 3: Practical paper [40 marks] Weighting 20%</p> <p>This paper will comprise two to three compulsory practical questions, based mainly on Assessment Objective C. One or more of the questions may incorporate assessment of Planning (P) and require candidates to apply and integrate knowledge and understanding from different sections of the syllabus. The assessment of PDO and ACE may include questions on data-analysis which do not require practical equipment and apparatus.</p>	<p>10. Homeostasis 11. Co-ordination and Response 12. Reproduction 13. Cell Division 14. Molecular Genetics 15. Inheritance 16. Organisms and their environment</p>	1 h 50 min
Chemistry 6092	Paper 1: 40 compulsory multiple choice questions [40 marks] Weighting: 20%	As stated in paper 2	1 h
	<p>Paper 2: Structured and Free Response [80 marks] Weighting: 50%</p> <p>Section A [50 marks]: All structured questions are compulsory Section B [30 marks]: The first two questions are compulsory questions, one of which will be a data-based question. The last question will be presented in an either/or form.</p>	<p>1. Experimental Chemistry 2. The Particulate Nature of Matter 3. Formulae, Stoichiometry and Mole Concept 4. Electrolysis 5. Energy from Chemicals 6. Chemical Reactions 7. Acids, Bases and Salts 8. The Periodic Table 9. Metals 10. Air 11. Organic Chemistry</p>	1 h 45 min
	<p>Paper 3: Practical Paper [40marks] Weighting: 20%</p> <p>This paper consists of a variable number of compulsory practical questions. One, or more, of the questions may incorporate assessment of Planning (P) and require candidates to apply and integrate knowledge and understanding from different sections of the syllabus. The assessment of PDO and ACE may include questions on data-analysis which do not require practical equipment and apparatus.</p>		
Physics 6091	Paper 1: 40 compulsory multiple choice questions [40 marks] Weighting: 30%	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Dynamics	1 h
	<p>Paper 2: Structured and Free Response [80 marks] Weighting: 50%</p> <p>Section A [50 marks]: All structured questions are compulsory Section B [30 marks]: The first two questions are compulsory questions, one of which will be a data-based question. The last question will be presented in an either/or form.</p>	<p>4. Mass, Weight and Density 5. Turning Effect of Forces 6. Pressure 7. Energy, Work and Power 8. Kinetic Model of Matter 9. Transfer of Thermal Energy 10. Temperature 11. Thermal Properties of Matter 12. General Wave Properties 13. Light 14. Electromagnetic Spectrum 15. Sound 16. Static Electricity 17. Current of Electricity 18. D.C. Circuits</p>	1 h 45 min
	<p>Paper 3: Practical Paper [40marks]: Weighting 20%</p> <p>Section A will carry 20 marks and will consist of 1–2 compulsory practical experiment questions with a total duration of 55 min. Section B will carry 20 marks and will consist of one compulsory 55 min practical experiment question. One or more of the questions may incorporate assessment of Planning (P) and require candidates to apply and integrate knowledge and understanding from different sections of the syllabus. The assessment of PDO and ACE may include questions on data-analysis which do not require practical equipment and apparatus.</p>	<p>19. Practical Electricity 20. Magnetism 21. Electromagnetism 22. Electromagnetic Induction</p>	1h 50 min

Science (Phy, Chem)5076	Paper 1: 40 compulsory multiple choice questions [40 marks] Weighting: 20 %	As stated in Paper 2 & Paper 3	1 h
	Paper 2: Structured and Free Response (Physics) [65 marks] Weighting: 65% Section A will carry 45 marks and will contain a number of compulsory structured questions of variable mark value. Section B will carry 20 marks and will contain three questions, each of 10 marks. Candidates are required to answer any two questions.	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Dynamics 4. Mass, Weight and Density 5. Turning Effect of Forces 6. Pressure 7. Energy, Work and Power 8. Kinetic Model of Matter 9. Transfer of Thermal Energy 10. Thermal Properties of Matter 11. General Wave Properties 12. Light 13. Electromagnetic Spectrum 14. Sound 15. Static Electricity 16. Current of Electricity 17. D.C. Circuits 18. Practical Electricity 19. Magnetism and Electromagnetism	1 h 15 min
	Paper 3: Structured and Free Response (Chemistry) [65 marks] Weighting: 65% Section A will carry 45 marks and will contain a number of compulsory structured questions of variable mark value. Section B will carry 20 marks and will contain three questions, each of 10 marks. Candidates are required to answer any two questions.	1. Experimental Chemistry 2. The Particulate Nature of Matter 3. Formulae, Stoichiometry and the Mole Concept 4. Energy Changes 5. Chemical Reactions (speed of reaction, Redox) 6. Acids, Bases and Salts 7. The Periodic Table 8. Metals 9. Air 10. Organic Chemistry 11. Atomic Structure 12. Chemical Bonding	1 h 15 min
	Paper 5: Practical Test [30 marks] Weighting: 15% One or two compulsory questions on each of the two Sciences.	As stated in Paper 2 & Paper 3	1 h 30 min
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(40分)	Not Applicable	1 h 30 min
	Paper 3 : 听力 (20分) / 口试 (50分) : 朗读 10分, 录像会话40分	Not Applicable	30 min / 15 min
Higher Chinese	Paper 1 : 电邮 (20分), 作文 (60分)	Not Applicable	2 h
	Paper 2 : 短文填空 (10分), 病句改正 (10分) , 阅读理解一 (10分); 阅读理解二 (38分), 长文缩写 (12分)	Not Applicable	1 h 45 min
	Paper 3: 口试 (40分)	Not Applicable	15 min
Malay Language	Paper 1 : Bahagian A (20 marks): E-mel rasmi / E-mel tidak rasmi; Bahagian B (40 marks): Deskriptif / Naratif / Ekspositori / Perbincangan	Not Applicable	2 h
	Paper 2 : Bahagian A: Imbuhan (10 marks), Peribahasa (10 marks), Melengkapkan teks (10 marks); Bahagian B: Kef.Objektif (10 marks); Bahagian C: Kef. Subjektif (30 marks)	Not Applicable	1h 30 min
	Paper 3 : Kefahaman Mendengar (20 marks); Lisan (50 marks)	Not Applicable	30 min / 15 min
Tamil Language	Paper 1 : மின்னஞ்சல் (20marks), கட்டுரை (40marks)	Not Applicable	2 h
	Paper 2 : மரபு (10marks), கருத்துமாறா (10marks), அமைப்பு (10marks), தெரிவு (10marks), சுயவிடை(30marks)	Not Applicable	1 h 30 min
	Paper 3 : கேட்டல் (20marks), வாய்மொழி (50marks)	Not Applicable	30 min / 15 min
* The total marks will be converted into 100%			

