

BUKIT PANJANG GOVT HIGH SCHOOL
End-of-Year Examination 2022
Exam Format & Topics covered
Secondary 3

Subject	Code	Duration	Exam Format	Topics Covered
Higher Chinese	1116/01	2h	实用文：私人电邮和公务电邮、作文	
	1116/02	1h 45m	语文应用（短文填充、病句改正）、阅读理解一、阅读理解二、片段缩写	
Chinese	1160/01	2h	实用文（私人电邮、公务电邮）、作文	
	1160/02	1h 30m	综合填空、阅读理解一、阅读理解二	
	1160/03	1h	听力	
Chinese Syllabus A	1196/01	2h	实用文（私人电邮、公务电邮）、作文	
	1196/02	1h 30m	综合填空；阅读理解一、阅读理解二	
	1196/03	1h	听力	
Chinese Syllabus B	1153/01	50m	写作：考生以拼音输入法在电脑上进行写作 (venue: comp lab, computer access)	
	1153/02	1h	语文理解与应用：语文应用、阅读理解一、阅读理解二	
	1153/03	1h	听力	
Basic Chinese	1202/01	50m	综合填空、阅读理解一、阅读理解二	
	1202/03	1h	听力	
Higher Malay	1117/01	2h	Bhg A :E-Mail Tidak Rasmi, Forum Bhg B :Karangan Deskriptif, Perbincangan & Naratif	
	1117/02	1h 45m	Melengkapkan Teks, Mengedit Teks, Peribahasa, Kefahaman Subjektif, Kefahaman Objektif & Peringkasan	
Malay	1148/01	2h	Bhg A :E-Mel Tidak Rasmi, E-Mel Rasmi, Bhg B : Karangan Deskriptif, Perbincangan & Naratif	
	1148/02	1h 30m	Imbuhan, Peribahasa, Melengkapkan Teks, Kefahaman Objektif & Kefahaman Subjektif.	
	1148/03	1h	Kefahaman Mendengar (MCQ)	
Malay Syllabus A	1197/01	2h	Bhg A :E-mel Tidak Rasmi & E-mel Rasmi Bhg B :Deskriptif, Perbincangan & Naratif	
	1197/02	1h 30m	Imbuhan, Peribahasa, Melengkapkan Teks, Kefahaman Objektif & Kefahaman Subjektif	
	1197/03	1h	Kefahaman Mendengar (MCQ)	
Basic Malay	1203/01	50m	Melengkapkan Teks (MCQ), Kefahaman Objektif (MCQ) & Penulisan SMS/E-mel Tidak Rasmi	
	1203/03	1h	Kefahaman Mendengar (MCQ)	
English Language	1128/01	1h 50m	Editing, Situational Writing & Continuous Writing	
	1128/02	1h 50m	Comprehension (includes Summary Question)	
	1128/03	1h	Listening Comprehension	
English Language Syllabus A	1190/01	1h 50m	Editing, Situational Writing & Continuous Writing	
	1190/02	1h 50m	Comprehension (includes Summary Question)	
	1190/03	1h	Listening Comprehension	
English Language Syllabus T	1195/01	1h 20m	Editing, Situational Writing, Continuous Writing	
	1195/02	1h 20m	Language Use & Comprehension	
	1195/03	1h	Listening Comprehension	
Literature in English	2065/01	1h 40m	Section A: 'Fahrenheit 451' Section B: Unseen Poetry	'Fahrenheit 451' (Parts 1, 2 & 3) + Unseen Poetry
History	2174/01	1h 40m	Section A: Source-Based Case Study(SBCS) skills tested Inference (what? message? attitude? why?); Compare & Contrast (including agree vs disagree); reliability, Utility	Paper 1: Topics tested for both SBCS* and Structured-Essay Questions Southeast Asia History British colonial rule in Malaya* French colonial rule in Vietnam Modern World History Impact of World War I Stalin's USSR* Hitler's Germany* (SBCS topics* may also be tested for SEQ is they are not set for SBCS)
	2174/02	1h 40m	Section B: Structured Essay Questions (SEQ) (2 questions, choose 1) Each question consists of: Part (a) - Explain Part (b) - Explain (including weighing / analysis of factors)	Paper 2: Topics tested for both SBCS* and Structured-Essay Questions Modern World History Impact of World War I Stalin's USSR* Hitler's Germany* Outbreak of War in Europe + Defeat of Germany (both chapters should be studied together) Outbreak of War in Japan + Defeat of Japan (both chapters should be studied together) (SBCS topics* may also be tested for SEQ is they are not set for SBCS)
Geography	2236/01	1h 40m	Section A : Coasts GI Section B : Coasts	Coasts: Gateway 1 - 3, Geographical Investigation
	2236/02	1h 30m	Q1 : Weather and Climate Q2 : Plate Tectonics	Weather and Climate: Gateway 1 - 3 Plate Tectonics: Gateway 1 - 3
Humanities (Social Studies)	2272/01 2273/01 2274/01 2287/01 2288/01	1h 45m	Section A Source-based Case Study (SBCS) Inference, Compare & Contrast and Reliability skills Section B Structured-response Question (SRQ) 2 Questions	Issue 1 (chapters 1-3) and Issue 2 (chapters 4-6)
Humanities (Social Studies)	2175/01 2176/01 2177/01	1h 45m	Section A : Source-based Case Study (SBCS) Inference, Compare & Contrast and Reliability skills Section B : Structured-response Question (SRQ) 2 Questions	Issue 1 (chapters 1-3), Issue 2 (chapters 4-6)
Humanities (Social Studies, Geography)	2272/02	1h 40m	Section A : Weather GI Section B : Weather Section C : Plate Tectonics	Plate Tectonics: Gateway 1 - 3 Weather and Climate: Gateway 1-2, Geographical Investigation
Humanities (Social Studies, Geography)	2175/02	1h 40m	Section A : Weather GI Section B : Weather Section C : Plate Tectonics	Plate Tectonics: Gateway 1 - 2 Weather and Climate: Gateway 1 - 2, Geographical Investigation

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Humanities (Social Studies, History)	2273/02	1h 40m	Section A: Source-Based Case Study(SBCS) skills tested Inference (what? message? attitude? why?); Compare & Contrast (including Agree vs disagree); Reliability and Utility Section B: Structured Essay Questions (2 questions, choose 1) Each question consists of: Part (a) - Explain Part (b) - Explain (including weighing / analysis of factors)	Topics tested for both SBCS* and Structured-Essay Questions Impact of World War I Stalin's USSR* Hitler's Germany* Outbreak of War in Europe + Defeat of Germany (both chapters should be studied together) Outbreak of War in Japan + Defeat of Japan (both chapters should be studied together) (SBCS may also be tested for SEQ if they are not set for SBCS)
Humanities (Social Studies, History)	2176/02	1h 30m	Source-Based Case Study (SBCS) skills tested Inference (message, attitude, why); Compare & Contrast (including Agree vs disagree); Reliability and Utility Structured Essay Questions (2 questions, choose 1) Each question consists of: Part (a) - Describe Part (b) - Explain (2 factors are given)	Topics tested for both SBCS* and Structured-Essay Questions Impact of World War I Stalin's USSR* Hitler's Germany* Outbreak of War in Europe + Defeat of Germany (both chapters should be studied together)
Humanities (Social Studies, Literature in English)	2274/02	1h 40m	Section A: 'Fahrenheit 451' Section B: Unseen Poetry	'Fahrenheit 451' (Parts 1 & 2) + Unseen Poetry
Humanities (Social Studies, Literature in English)	2177/02	1h 40m	Section A: 'A Hundred Flowers' Section B: Unseen Poetry	'A Hundred Flowers' + Unseen Poetry
Humanities (Social Studies, Literature in Chinese)	2287/02	1h 40m	A组: 课内文学赏析 (小说、诗歌二选一) B组: 课外文学赏析 (小说、诗歌二选一)	A组: 指定文本选读 (现当代小说、诗歌) B组: 文学作品赏析 (课外小说、新诗文本)
Humanities (Social Studies, Literature in Malay)	2288/02	1h 40m	Section A: "Pahlawan Punggung" - Answer one of two questions Section B: Unseen - Answer one of two questions	1. Prosa Moden: Sambal Goreng Mak, Nyanyuk, Pahlawan Punggung 2. Sajak: Kepada Pohon Tak Bernama, Anakku, Ke Makam Bonda 3. Teks Bebas: Prosa Moden & Sajak
Mathematics	4052/01	1h 30m	There will be short answer questions. Candidates are required to answer all questions.	Sec 1 Chapters Sec 2 Chapters Sec 3 Chapter 1 to 10
	4052/02	1h 30m	There will be questions of varying marks and lengths. There is one question in this paper that will focus specifically on applying mathematics to a real-world scenario. Candidates are required to answer all questions.	
Mathematics Syllabus A	4045/01	1h 30m	There will be short answer questions. Candidates are required to answer all questions.	Sec 1 Chapters Sec 2 Chapters Sec 3 Chapters 1-7
	4045/02	1h 30m	There will be questions of varying marks and lengths. There is one question in this paper that will focus specifically on applying mathematics to a real-world scenario. Candidates are required to answer all questions.	
Mathematics Syllabus T	4046/01	1h 30m	There will be short answer questions. Candidates are required to answer all questions.	Sec 1 Chapters Sec 2 Chapters Sec 3 Chapters 1-9
	4046/02	1h 30m	There will be questions of varying marks and lengths. There is one question in this paper that will focus specifically on applying mathematics to a real-world scenario. Candidates are required to answer all questions.	
Additional Mathematics	4049	2h 15m	There will be questions of varying marks and lengths. Candidates are required to answer ALL questions.	Chapters 1 to 9
Additional Mathematics Syllabus A	4051	1h 45m	There will be questions of varying marks and lengths.	Sec 3 Chapters 1, 2, 3, 4, 7, 9
Science 'O' (Physics, Chemistry) & Science 'O' (Chemistry, Biology)	5076/01	1h	Multiple Choice : 40 compulsory multiple choice items of the direct choice type (20 Physics, 20 Chemistry)	<u>Physics</u> 1. Physical Quantities, Units and Measurement 2. Kinematics 3. Dynamics (Forces) 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 14. Sound
	5078/01	1h	Multiple Choice : 40 compulsory multiple choice items of the direct choice type (20 Chemistry, 20 Biology)	
	5076/02	1h 15m	Physics Structured and Free Response : Section A Section B : Answer 2 questions.	<u>Chemistry</u> 1. Experimental Chemistry (Experimental Design, Methods of Purification and Analysis, Identification of Ions and Gases) 2. The Particulate Nature of Matter (Kinetic Particle Theory, Atomic Structure, Structure and Properties of Materials, Ionic Bonding, Covalent Bonding) 3. Formulae, Stoichiometry and the Mole Concept 4. Chemical Reactions (Redox) 5. Acids, Bases and Salts (Acids and Bases, Salts) 6. The Periodic Table (Periodic trends, Group properties) 7. Metals (Properties of metals, Reactivity series, Extraction of metals, Recycling of metals, Iron) 8. Air
	5076/03 5078/03	1h 15m	Chemistry Structured and Free Response : Section A Section B : Answer 2 questions.	
	5078/04	1h 15m	Biology Structured and Free Response : Section A Section B : Answer 2 questions.	<u>Biology</u> 1. Cell Structure and Organisation 2. Molecular Genetics 3. Movement of Substances 4. Biological Molecules (Nutrients and Enzymes) 5. Nutrition in Humans 6. Nutrition in Plants 7. Transport in Humans 8. Transport in Flowering Plants 9. Respiration in Humans 10. Co-ordination and Response in Humans (Hormones)
	5076/05	1h 30m	Practical : (Q1 = Physics , Q2 = Chemistry)	
5078/05	1h 30m	Practical : (Q1 = Chemistry , Q2 = Biology)		

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Physics	6091/01	45m	Multiple Choice : 30 compulsory multiple choice items of the direct choice type	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Dynamics (Forces) 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
	6091/02	1h 30m	Structured and Free Response - Section A : a variable number of compulsory structured questions - Section B : All questions are compulsory questions, some of which will be a data-based question requiring candidates to interpret, evaluate or solve problems using a stem of information.	
	6091/03	1h	Practical	<ul style="list-style-type: none"> ● Manipulation, measurement and observation (MMO) ● Presentation of data and observations (PDO) ● Analysis, conclusions and evaluation (ACE)
Chemistry	6092/01	45m	Multiple Choice : 30 compulsory multiple choice items of the direct choice type	1. Experimental Chemistry (Experimental Design, Methods of Purification and Analysis, Identification of Ions and Gases) 2. The Particulate Nature of Matter (Kinetic Particle Theory, Atomic Structure, Structure and Properties of Materials, Ionic Bonding, Covalent Bonding, Metallic Bonding) 3. Formulae, Stoichiometry and the Mole Concept 4. Chemical Reactions (Redox) 5. Acids, Bases and Salts (Acids and bases, Salts) 6. The Periodic Table (Periodic trends, Group properties, Transition elements) 7. Metals (Properties of metals, Reactivity series, Extraction of metals, Recycling of metals, Iron) 8. Air
	6092/02	1h 30m	Structured and Free Response - Section A : a variable number of compulsory structured questions - Section B : All questions are compulsory questions, some of which will be a data-based question requiring candidates to interpret, evaluate or solve problems using a stem of information.	
	6092/03	1h	Practical	<ul style="list-style-type: none"> ● Manipulation, measurement and observation (MMO) ● Presentation of data and observations (PDO) ● Analysis, conclusions and evaluation (ACE)
Biology	6093/01	45m	Multiple Choice : 30 compulsory multiple choice items of the direct choice type	1. Cell Structure and Organisation 2. Molecular Genetics 3. Movement of Substances 4. Biological Molecules (Nutrients) 5. Biological Molecules (Enzymes) 6. Nutrition in Humans 7. Transport in Humans 8. Nutrition in Plants 9. Transport in Flowering Plants 10. Respiration in Humans 11. Excretion in Humans
	6093/02	1h 30m	Structured and Free Response - Section A : a variable number of compulsory structured questions - Section B : All questions are compulsory questions, some of which will be a data-based question requiring candidates to interpret, evaluate or solve problems using a stem of information.	
	6093/03	1h	Practical	<ul style="list-style-type: none"> ● Manipulation, measurement and observation (MMO) ● Presentation of data and observations (PDO) ● Analysis, conclusions and evaluation (ACE)
Science 'N' (Physics, Chemistry)	5105/01	1h 15m	Multiple Choice : consists of 20 compulsory multiple choice questions	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Dynamics (Forces) 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. Electromagnetic spectrum
	5105/02		Structured : Section A : contains a small number of compulsory structured questions. Section B : contains three structured questions. Candidates must answer only two out of these three questions.	
Science 'N' (Physics, Chemistry) & Science 'N' (Chemistry, Biology)	5105/03 5107/03	1h 15m	Multiple Choice : consists of 20 compulsory multiple choice questions	1. Experimental Chemistry (Experimental Design, Methods of Purification and Analysis, Identification of Gases) 2. The Particulate Nature of Matter (Kinetic Particle Theory, Atomic Structure, Structure and Properties of Materials, Ionic Bonding and Covalent Bonding) 3. Chemical Formula and Balancing Equation 4. Acids, Bases and Salts (Acids and Bases, Salts) 5. The Periodic Table (Periodic Trends and Group Properties)
	5105/04 5107/04		Structured : Section A : contains a small number of compulsory structured questions. Section B : contains three structured questions. Candidates must answer only two out of these three questions.	
Science 'N' (Chemistry, Biology)	5107/05	1h 15m	Multiple Choice : consists of 20 compulsory multiple choice questions	1. Cell structure and organisation 2. Movement of substances 3. Biological Molecules (Nutrients) 4. Biological Molecules (Enzymes) 5. Nutrition in Humans 6. Nutrition in Plants
	5107/06		Structured : Section A : contains a small number of compulsory structured questions. Section B : contains three structured questions. Candidates must answer only two out of these three questions.	
Science Syllabus T	5148/01	1h	Multiple Choice : consists of 40 compulsory multiple choice questions	<u>Module 4</u> 1.1 Energy and its Uses 1.2 Energy transfer through Waves 1.3 Effects of Forces 1.4 Electricity 1.5 Sources of Electricity
	5148/02	1h 15m	Short-answer or structured : consist of a variable number of compulsory short-answer or structured questions. One of the questions is a data-response question, requiring candidates to interpret, evaluate or solve problems using data and/or observations.	<u>Module 6</u> 3.1 Digestion 3.2 Breathing 3.3 Fitness and Cardiac Health 3.4 Staying Healthy

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Nutrition and Food Science Syllabus A	6073/01	1h 30m	Written Paper : Section A: Multiple choice questions Section B: Short-answer-type questions and data-response-type questions Section C: Open-ended questions	1. Proteins 2. Carbohydrates 3. Fats 4. Vitamins 5. Minerals 6. Water & Dietary fibre 7. Diet & Health Problems 8. Diet and Meal Planning 9. Preparation and Cooking of Food 10. Methods of cooking 11. Reactions in food during preparation and cooking 12. Sensory Evaluation
Nutrition and Food Science Syllabus T	5979/01	1h 30m	Candidates are to answer all questions. Section A: Multiple choice questions Section B: Short-answer-type questions Section C: structured type questions	1. Planning meals + Meal Analysis 2. Food Management (Reason for cooking, Evaluation of food & food safety, pastries & cake making) 3. Food Commodities (B) Cereals & cereal products (C) Eggs (D) Dairy products (E) Vegetables (F) Fruits (G) Convenience food (H) Fats and oil
Design and Technology Syllabus A	7055/01	1h 30m	Written Paper : Candidates are to answer all questions. The questions will be design-centric. Question 1 requires knowledge application of Section 1 Design. Question 2 and Question 3 require knowledge application of Section 2 Technology, specifically mechanisms and electronics.	1. Design Communication 2. Mechanism 3. Electronics
Design and Technology Syllabus T	7062/01	1h	Written Paper : Students to answer all 5 structured questions. 1 to 3 – Design communications 4 – Mechanisms	1. Design Communications 2. Mechanism 3. Electronics
Principles of Accounts	7086	2h	Answer 5 compulsory structured questions. • One question requires the preparation of financial statements for a business for one financial year. • A scenario-based question (5 marks) will be part of one of the 3 remaining questions.	Chapters 1-5, 9-12, 14, 17
Computer Applications	7018/01	1h	Written Paper : Section A contains 20 multiple-choice questions. Section B contains a variable number of short-structured questions of variable marks.	All topics from Sec 1 to 3
	7018/02	1h 30m	Practical	
Elements of Business Skills	7066/01	1h 30m	Short response and structured questions: (i) with helping words; (ii) requiring short answers	Chapters 1 to 6