

Zhenghua Secondary School

Sec 4 Normal (Academic) Syllabus Coverage for Mid-Year Examination 2022

ENGLISH LANGUAGE 1190

S/N	Topics	Format / Weightings
1	Paper 1: Writing Section A: Editing Section B: Situational Writing Section C: Continuous Writing <i>Duration of Examination = 1hr 50mins</i>	10 marks 30 marks 30 marks Total= 70 marks (35%)
2	Paper 2: Comprehension Section A: Visual Text – structured questions Section B: Narrative text – structured questions Section C: Non-narrative text- structured questions and summary <i>Duration of Examination = 1hr 50mins</i>	5 marks 20 marks 25 marks Total= 50 marks (35%)
3	Paper 3: Listening Section A: Students respond to a variety of listening tasks based on a number of audio recordings which students will hear twice. Section B: Students listen to an audio recording and do a simple note-taking exercise. Students will hear the recording once. <i>Duration of Examination = approximately 50mins</i>	24 marks 6 marks Total= 30 marks (10%)
4	Paper 4: Oral Communication The two parts in this paper are thematically linked. Part 1: Reading Aloud Candidates read aloud a short text presented on the computer screen. Part 2: Spoken Interaction Candidates engage in a discussion with the examiners on a topic based on a topic based on a visual stimulus, in the form of a video clip. <i>Duration of Examination= About 20 minutes (including 10 minutes of Preparation time)</i>	10 marks 20 marks Total= 30 marks (20%)

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CHINESE LANGUAGE (1196) 普通（学术）华文

	试卷	项目	必答题数	分数	分数比例	附注
1	试卷（一） 2 小时	作文 <ul style="list-style-type: none"> 情境作文 新闻读后感 论说文 完成文章 	1	40		四选一
		实用文 <ul style="list-style-type: none"> 私人电邮 公务电邮 	1	20		二选一
		总		60	30%	
2	试卷（二） 1 小时 30 分钟	综合填空	10	10		
		阅读理解（一） <ul style="list-style-type: none"> 选择题 	10	20		
		阅读理解（二） <ul style="list-style-type: none"> 理解问答题 	8	30		
		总		60	30%	
3	试卷（三）	听力考试 <ul style="list-style-type: none"> 选择题 	10	20	10%	
		口试 <ul style="list-style-type: none"> 朗读短文 看录像短片对话 		20 40	30%	
		总		80	40%	
	总分			200	100%	

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CHINESE LANGUAGE (1160) 快捷华文

	测试	项目	必答题数	分数	分数比例	附注
1	试卷（一） 2 小时	作文 <ul style="list-style-type: none"> 情境作文 论说文 材料作文 	1	40		三选一
		实用文 <ul style="list-style-type: none"> 私人电邮 公务电邮 	1	20		二选一
		总		60	30%	
2	试卷（二） 1 小时 30 分钟	综合填空	10	10		
		阅读理解（一） <ul style="list-style-type: none"> 理解测验 	10	20		
		阅读理解（二） <ul style="list-style-type: none"> 理解问答题 	10	40		
		总		70	35%	
3	试卷（三）	听力考试 <ul style="list-style-type: none"> 选择题 	10	20		
		口试 <ul style="list-style-type: none"> 朗读短文 看录像短片对话 		10 40		
		总		70	35%	
	总分			200	100%	

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MALAY LANGUAGE (1197)

Kertas	Komponen	Markah / Timbangan	Catatan
1	Bahagian A: E-mel Calon dikehendaki menjawab satu soalan daripada: a) E-mel tidak formal b) E-mel formal	20	Kamus Dewan boleh digunakan Masa peperiksaan: 2 jam
	Bahagian B: Karangan Calon dikehendaki menjawab satu soalan daripada karangan jenis: a) Deskriptif/Naratif b) Ekspositori c) Naratif	40	
	Jumlah	60 (30%)	
2	Bahagian A1: Imbuhan	10	Kamus tidak boleh digunakan. Masa peperiksaan: 1 jam 30 minit
	Bahagian A2: Peribahasa	5	
	Bahagian A3: Melengkapkan Teks	5	
	Bahagian B: Grafik Stimulus	10	
	Bahagian C: Kefahaman	30	
	Jumlah	60 (30%)	
3	Lisan Bahagian A: Bacaan Lantang Bahagian B: Perbualan Berdasarkan Video	20 40	Masa peperiksaan: 30 minit
	Kefahaman Mendengar	20	
	Jumlah	80 (40%)	

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MALAY LANGUAGE 1148 (NA SBB - Express Syllabus)

Kertas	Komponen	Markah / Timbangan	Catatan
1	Bahagian A: E-mel Calon dikehendaki menjawab satu soalan daripada: c) E-mel tidak formal d) E-mel formal	20	Kamus Dewan boleh digunakan Masa peperiksaan: 2 jam
	Bahagian B: Karangan Calon dikehendaki menjawab satu soalan daripada karangan jenis: d) Deskriptif/Naratif e) Ekspositori f) Naratif	40	
	Jumlah	60 (30%)	
2	Bahagian A1: Imbuhan	10	Kamus tidak boleh digunakan. Masa peperiksaan: 1 jam 30 minit
	Bahagian A2: Peribahasa	10	
	Bahagian A3: Melengkapkan Teks	10	
	Bahagian B: Grafik Stimulus	10	
	Bahagian C: Kefahaman	30	
	Jumlah	70 (35%)	
3	Lisan Bahagian A: Bacaan Lantang Bahagian B: Perbualan Berdasarkan video	10 40	Masa peperiksaan: 30 minit
	Kefahaman Mendengar	20	
	Jumlah	70 (35%)	

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SCIENCE (Physics, Chemistry) 5105

Duration of Examination: Papers 1 and 2: 1 hour 15 minutes
Papers 3 and 4: 1 hour 15 minutes

S/N	Topics	Format/ Weightings
<u>Physics</u>		
1	Physical Quantities, units and Measurement	<p><u>Paper 1 (Physics) (20 marks)</u> Multiple Choice Questions</p> <p><u>Paper 2 (Physics)</u> <u>Section A (14 marks)</u> Structured Questions</p> <p><u>Section B (16 marks)</u> Free Response Questions Choose 2 out of 3 questions [note: Only the first two questions are assessed if all 3 questions are attempted]</p> <p><u>Paper 3 (Chemistry) (20 marks)</u> Multiple Choice Questions</p> <p><u>Paper 4 (Chemistry)</u> <u>Section A (14 mark)</u> Structured Questions</p> <p><u>Section B (16 marks)</u> Free Response Questions Choose 2 out of 3 questions [note: Only the first two questions are assessed if all 3 questions are attempted]</p> <p style="text-align: center;">Total: 100 marks</p>
2	Kinematics	
3	Forces and Pressure	
4	Mass, Weight and Density	
5	Turning effect of Forces	
6	Energy, Work and Power	
7	Kinetic model of matter	
8	Transfer of thermal energy	
9	Thermal properties of matter	
10	General wave properties	
11	Electromagnetic spectrum	
12	Sound	
13	Current electricity	
14	DC circuits	
15	Practical electricity	
<u>Chemistry</u>		
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 (8.1, 8.2 and 8.3 only)	
9	Acids and Bases	
10	Salts (not including Qualitative Analysis)	
11	Metals	
12	The Periodic Table	
13	An Introduction to Organic Chemistry	
14	Alkanes	
15	Alkenes	

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SCIENCE (Chemistry, Biology) 5107

Duration of Examination: Paper 3 and 4: 1 hour 15 minutes

Paper 5 and 6: 1 hour 15 minutes

S/N	Topics	Format/ Weightings
<u>Chemistry</u>		
1	Kinetic Particle Theory	<u>Paper 3 (Chemistry) (20 marks)</u> Multiple Choice Questions <u>Paper 4 (Chemistry)</u> <u>Section A (14 mark)</u> Structured Questions <u>Section B (16 marks)</u> Free Response Questions Choose 2 out of 3 questions [note: Only the first two questions are assessed if all 3 questions are attempted]
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 (8.1, 8.2 and 8.3 only)	
9	Acids and Bases	
10	Salts (not including Qualitative Analysis)	
11	Metals	
12	The Periodic Table	
13	An Introduction to Organic Chemistry	
14	Alkanes	
15	Alkenes	
<u>Biology</u>		<u>Paper 5 (Biology) (20 marks)</u> Multiple Choice Questions <u>Paper 6 (Biology)</u> <u>Section A (14 marks)</u> Structured Questions <u>Section B (16 marks)</u> Free Response Questions Choose 2 out of 3 questions [note: Only the first two questions are assessed if all 3 questions are attempted]
1	Cells	Total: 100 marks
2	Movement of Substances	
3	Nutrients	
4	Enzymes	
5	Nutrition in Humans	
6	Nutrition in Plants	
7	Transport in Humans	
8	Transport in Plants	
9	Respiration	
10	Reproduction in Plants	
11	Reproduction in Humans	

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O-LEVEL SCIENCE (Physics, Chemistry) 5076 (For 4N SBB students)

Duration of Examination: Paper 1: 1 hour

Paper 2/3: 1 hour 15 minutes

S/N	Topics	Format/ Weightings
<u>Physics</u>		<p><u>Paper 1 (40 marks)</u> Multiple Choice Questions Q1 to Q20 – Physics Q21 to Q40 – Chemistry</p> <p><u>Paper 2 (Physics)</u> <u>Section A (45 marks)</u> Structured Questions</p> <p><u>Section B (20 marks)</u> Free Response Questions Choose 2 out of 3 questions [note: Only the first two questions are assessed if all 3 questions are attempted]</p> <p><u>Paper 3 (Chemistry)</u> <u>Section A (45 marks)</u> Structured Questions</p> <p><u>Section B (20 marks)</u> Free Response Questions Choose 2 out of 3 questions [note: Only the first two questions are assessed if all 3 questions are attempted]</p> <p><u>Paper 5 (Practical) (30 marks)</u> Q1. Physics Practical Q2. Chemistry Practical</p> <p>Total: 200 marks</p>
1	Measurement	
2	Kinematics	
3	Forces and Pressure	
4	Mass Weight and Density	
5	Turning effects of Forces	
6	Energy, Work and Power	
7	Kinetic Model of Matter	
8	Transfer of Thermal Energy	
9	Thermal Properties of Matter	
10	Light	
11	Waves	
12	Electromagnetic Waves	
13	Sound	
14	Static Electricity	
15	Current Electricity	
16	D.C. circuits	
<u>Chemistry</u>		
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	
12	Oxidation and Reduction	
13	Metals	
14	The Periodic Table	
15	Energy Changes	

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MATHEMATICS (NA) 4045

Duration of Examination: Paper 1: (2 hours) Paper 2: (2 hours)

Syllabus has completed. All Sec 1 to Final Year topics are tested.

S/N	Topics	Format / Weightings
Unit 1	Numbers and Algebra	Paper 1: 80 marks (50%) 2hr Calculators Allowed Paper 2: 60 marks (50%) 2hr Calculators Allowed Section A: Answer all questions Section B: One question from the “Geometry & Measurement” strand and one from the “Statistics and Probability” strand. Choose one out of 2 questions.
	1.1 Numbers and their Operations	
	1.2 Ratio and Proportion	
	1.3 Percentage	
	1.4 Rate and Speed	
	1.5 Algebraic Expressions and Formulae	
	1.6 Functions and Graphs	
	1.7 Equations and Inequalities	
	1.8 Problems in Real-World Contexts	
Unit 2	Geometry and Measurement	
	2.1 Angles, Triangles and Polygons	
	2.2 Congruence and Similarity	
	2.3 Properties of Circles	
	2.4 Pythagoras’ Theorem and Trigonometry	
	2.5 Mensuration	
	2.6 Coordinate Geometry	
Unit 3	Statistics and Probability	
	3.1 Data Analysis	
	3.2 Probability	

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MATHEMATICS (O-level) 4048

Duration of Examination: 2 hours (Paper 1) & 2 hours 30 minutes (Paper 2)

Syllabus has been completed. All Sec 1 to Final Year topics are tested.

S/N	Topics	Format / Weightings
Unit 1	Numbers and Algebra	Paper 1: 80 marks (50%) 2hr Calculators Allowed
	1.1 Numbers and their Operations	
	1.2 Ratio and Proportion	
	1.3 Percentage	
	1.4 Rate and Speed	
	1.5 Algebraic Expressions and Formulae	
	1.6 Functions and Graphs	
	1.7 Equations and Inequalities	
	1.8 Set Language and Notation	
	1.9 Matrices	
	1.10 Problems in Real-World Contexts	
Unit 2	Geometry and Measurement	Paper 2: 100 marks (50%) 2hr 30min Calculators Allowed
	2.1 Angles, Triangles and Polygons	
	2.2 Congruence and Similarity	
	2.3 Properties of Circles	
	2.4 Pythagoras' Theorem and Trigonometry	
	2.5 Mensuration	
	2.6 Coordinate Geometry	
	2.7 Vectors in Two Dimensions	
Unit 3	Statistics and Probability	
	3.1 Data Analysis	
	3.2 Probability	

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ADDITIONAL MATHEMATICS 4051

Duration of Examination: 1 hour 45 minutes (Paper 1) & 1 hour 45 minutes (Paper 2)

S/N	Topics	Format / Weightings
1	Chapter 1: Quadratic Functions	Paper 1: 70 marks (50%) 1hr 45min Calculators Allowed
2	Chapter 2: Equations and Inequalities	
3	Chapter 3: Surds	
4	Chapter 4: Polynomials, Cubic Equations and Partial Fractions	
5	Chapter 7: Coordinate Geometry	
6	Chapter 9: Trigonometric Functions and Graphs	
7	Chapter 10: Trigonometric Equations and Identities	
8	Chapter 11: Gradients, Derivatives and Differentiation Techniques	Paper 2: 70 marks (50%) 1hr 45min Calculators Allowed
9	Chapter 12: Applications of Differentiation	
10	Chapter 14: Integration – Basic integration, integration of a function involving a linear factor)	
11	Chapter 15: Applications of Integration	

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HUMANITIES (Social Studies/Geography) 2175

Duration of Examination: 1 h 45 min for Social Studies and 1 h 40 min for Geography

S/N	Topics	Format/ Weightings
<u>Social Studies</u>		
1	<u>Issue 2</u> <ul style="list-style-type: none"> 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? <u>Issue 3</u> <ul style="list-style-type: none"> Chapter 8: What does it mean to live in a globalised world? Chapter 9: How do we respond to tensions arising from Economic Impact of Globalisation? 	<u>Section A</u> Source-Based Case Study (35 marks) <u>Section B</u> Structured-Response Questions (15 marks) Total: 50 marks
<u>Geography</u>		
1	<u>Physical Geography</u> <ol style="list-style-type: none"> Weather & Climate <ul style="list-style-type: none"> GI only Plate Tectonic <ul style="list-style-type: none"> Gateways 1 & 2 only <u>Human Geography</u> <ol style="list-style-type: none"> Tourism <ul style="list-style-type: none"> Gateways 1 - 3 	<u>Section A</u> Field Study– Geographical Skills and Investigations (13 marks) <u>Section B</u> Structured Questions (12 marks) <u>Section C</u> Structured Essay Questions (25 marks) Total: 50 marks

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HUMANITIES (Social Studies/History) 2176

Duration of Examination: 1 h 45 min for Social Studies and 1 h 40 min for History

S/N	Topics	Format/ Weightings
<u>Social Studies</u>		
1	<u>Issue 2</u> <ul style="list-style-type: none"> 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? <u>Issue 3</u> <ul style="list-style-type: none"> Chapter 8: What does it mean to live in a globalised world? Chapter 9: How do we respond to tensions arising from Economic Impact of Globalisation? 	<u>Section A</u> Source-Based Case Study (35 marks) <u>Section B</u> Structured-Response Questions (15 marks) Total: 50 marks
<u>History</u>		
1	Chapters 2 and 3 of Sec 3 textbook. Chapters 1 and 2 of Sec 4 textbook. <ul style="list-style-type: none"> Stalin's Soviet Union, Hitler's Germany, Reasons for Cold War in Europe and Korean War 	<u>Section A</u> Source-Based Case Study (30 marks) <u>Section B</u> Structured Essay Question (20 marks) Total: 50 marks

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HUMANITIES (Social Studies/Literature) 2177

Duration of Examination: 1 h 45 min for Social Studies and 1 h 40 min for Literature

S/N	Topics	Format/ Weightings
<u>Social Studies</u>		
1	<u>Issue 2</u> <ul style="list-style-type: none"> 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? <u>Issue 3</u> <ul style="list-style-type: none"> Chapter 8: What does it mean to live in a globalised world? Chapter 9: How do we respond to tensions arising from Economic Impact of Globalisation? 	<u>Section A</u> Source-Based Case Study (35 marks) <u>Section B</u> Structured-Response Questions (15 marks) Total: 50 marks
<u>Literature</u>		
<u>Paper 1: Hook & Eye Set - Text & Unseen</u>		<u>Section A</u>
1	<u>Prose: Hook & Eye – 11 short stories</u> <ul style="list-style-type: none"> Plot & Structure Characterisation Themes Setting Style 	Set-text Questions Either an Essay question OR Passage-based essay question (25 marks)
2	<u>Unseen Poetry</u> <ul style="list-style-type: none"> Subject Matter & Mood Theme Diction Figurative Language Rhyme & Rhythm Sound 	<u>Section B</u> Unseen Poetry question (International poem) OR Unseen Poetry question (Local/Asian poem) (25 marks) Total: 50 marks (50%)

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PRINCIPLES OF ACCOUNTS 7088

Duration of Examination: Paper 1: 1 hour; Paper 2: 2 hours

S/N	Topics	Format / Weightings
1	<p>Chapter 1 Introduction to Accounting</p> <p>Chapter 2 The Accounting Information System</p> <p>Chapter 10 Trade receivables</p> <ul style="list-style-type: none">-Decision : credit worthiness of customers- accounting for impairment loss on trade receivables-Interpreting allowance for impairment of trade receivables <p>Chapter 11 Non-current Assets</p> <ul style="list-style-type: none">- Accounting of Non-current assets- interpreting non-current asset <p>Chapter 13 Long-term borrowings</p> <ul style="list-style-type: none">- Borrowings- Accounting for loan- Presentation of long-term borrowings- Accounting for interest expense- Presentation of interest expense- Interpreting loan and interest expense <p>Chapter 14 Equities</p> <ul style="list-style-type: none">- Owner's equity- Accounting for owner's equity- Interpreting drawings and capital	<p><u>Paper 1</u></p> <ul style="list-style-type: none">• 40 marks• Answer all questions in booklet <p><u>Paper 2</u></p> <ul style="list-style-type: none">• 60 marks• Answer all questions• Answer in answer booklet

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DESIGN & TECHNOLOGY 7055

Duration of Examination: 1 hour 30 minutes

S/N	Topics	Format / Weightings
1	<u>Theory Paper:</u> Q1. (Design) Project Management Research Needs Definition Idea Generation and Development Evaluation Design Communication Ergonomics and Anthropometry Types of marking out, shaping, joining and assembly processes Q2. (Mechanisms) Q3. (Electronics)	60 marks (40%) Q1 (24 marks) Q2 (18 marks) Q3 (18 marks)
2	Coursework (Journal)	60 marks (60%) Theme based coursework

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NUTRITION & FOOD SCIENCE 6073

Duration of Examination: 1 hour 30 minutes

S/N	Topics	Format / Weightings
1	<u>Theory Paper: Chap 1-16</u> Chapter 1: Proteins Chapter 2: Carbohydrates Chapter 3: Fats Chapter 4: Vitamins Chapter 5: Minerals Chapter 6: Water and Dietary Fibre Chapter 7: Diet and Health Problems Chapter 8: Diet and Meal Planning Chapter 9: Meal Analysis Chapter 11: Preparation and Cooking of Food Chapter 12: Methods of Cooking Chapter 13: Reactions in food during Preparation and Cooking Chapter 14: Sensory Evaluation of Food Chapter 15: Food safety Chapter 16: Convenience Food	80 marks (50%) Section A: 16 m (MCQ) Section B : 40 m Data based structured questions Section C :24 m 2 Essay questions
2	Coursework	30 marks (50%) Problem based coursework.

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ART 6125

Duration of Examination: NA

S/N	Topics	Format / Weightings
	<p>Drawing and Painting:</p> <p>Assessment will be based on Preparatory Studies (To be carried out and recorded over 3 weeks) and Final Artwork (To be completed during Art examination for 3 hour).</p> <p>Assessment Criteria:</p> <p>Investigation and Interpretation of Theme (15%)</p> <p>Exploration and Development of Theme (15%)</p> <p>Aesthetic Qualities (25%)</p> <p>Control of Materials and Technical Processes (25%)</p> <p>Personal Response (20%)</p>	100 marks (100%)