

Zhenghua Secondary School

Sec 4 Express/5 Normal

Syllabus Coverage for Assessment in Mid-Year Examination 2016

ENGLISH LANGUAGE

S/N	Topics	Format / Weightings
1	<p>Paper 1: Writing</p> <p>Section A: Editing – Grammar</p> <p>Section A: Situational Writing</p> <p>Section B: Continuous Writing (Discursive, Argumentative, and Expository Writing)</p> <p>Duration of Examination = 1hr 50mins</p>	<p>10 marks</p> <p>30 marks</p> <p>30 marks</p> <p>Total= 70 marks (35%)</p>
2	<p>Paper 2: Comprehension</p> <p>Section A: Visual Text – structured questions</p> <p>Section A: Narrative text – structured questions</p> <p>Section B: Non-narrative text- structured questions and summary</p> <p>Duration of Examination = 1hr 50mins</p>	<p>5 marks</p> <p>20 marks</p> <p>25 marks</p> <p>Total= 50 marks (35%)</p>
3	<p>Paper 3: Listening</p> <p><i>Skills assessed: Listening for main ideas, details and inference</i></p> <p>Section A: Multiple choice questions, matching and fill in the blanks</p> <p>Section B: Structured questions</p> <p>Duration of Examination = 50mins</p>	<p>24 marks</p> <p>6 marks</p> <p>Total= 30 marks (10%)</p>
4	<p>Paper 4: Oral Communication</p> <p>The two parts in this paper are thematically linked.</p> <p><i>Part 1: Reading Aloud</i></p> <p>Candidates read aloud a short text.</p> <p><i>Part 2: Spoken Interaction</i></p> <p>Candidates engage in a discussion with the examiners on a topic based on a visual stimulus</p> <p>Duration of Examination= About 20 minutes (including 10 minutes of Preparation time)</p>	<p>10 marks</p> <p>20 marks</p> <p>Total= 30 marks (20%)</p>

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CHINESE LANGUAGE

中四中五快捷课程年中考试

	测试	项目	必答题数	分数	分数比例	附注
1	年中考试试卷 (一) 2 小时	作文 • 情境作文 • 论说文	1	40		三选一
		实用文 • 私人电邮 • 公务电邮	1	20		二选一
		总		60	30%	
2	年中考试 试卷 (二) 1 小时 30 分钟	综合填空	10	10		
		理解测验	10	20		
		理解问答	10	40		
		总		70	35%	
3	年中考试试卷 (三)	听力考试 • 选择题	10	20		
		口试 • 朗读短文 • 看录像短片对话		10 40		
		总		70	35%	
		总分			100%	

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HIGHER CHINESE LANGUAGE

高华中四快捷年中考试

测试	项目	必答题数	分数	分数比例	附注
1 年中考试试卷（一） 2 小时	作文 <ul style="list-style-type: none"> • 情境作文 • 演讲词 • 说明文/议论文（根据提供的材料写看法） 	1	60		三选一
	实用文 <ul style="list-style-type: none"> • 私人电邮 • 公务电邮 • 论坛 	1	20		二选一
	总		80	40%	
2 年中考试 试卷（二） 1 小时 45 分钟	短文填空	5	10		
	病句改正	5	10		
	阅读理解一（选择题+简短问答题）	5	10		
	阅读理解二（问答题）	8	38		
	片段缩写	1	12		
	总		80	40%	
3 口试	会话 <ul style="list-style-type: none"> • 看录像短片进行口头报告与会话 		40	20%	
总分			200	100%	

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MALAY LANGUAGE

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 Dewan 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		Masa peperiksaan: 30 minit
	Bahagian A: Bacaan Lantang	10	
	Bahagian B: Perbualan Berdasarkan video	40	
	Kefahaman Mendengar	10	
Jumlah	70 (35%)		

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PURE PHYSICS

Duration of Examination: Paper 1: 1 hour

Paper 2: 1 hour 45 minutes

S/N	Topics	Format/ Weightings
1	Physical Units and Measurements	<u>Paper 1</u> (40 marks) Multiple Choice Questions
2	Kinematics	
3	Forces	
4	Mass Weight and Density	<u>Paper 2</u> <u>Section A</u> (50 marks) Structured Questions)
5	Turning effects of Forces	
6	Energy, Work and Power	<u>Section B</u> (30 marks) Free Response Questions
7	Pressure	
8	Temperature	
9	Kinetic Model of Matter	Total: 120 marks
10	Transfer of Thermal Energy	
11	Thermal Properties of Matter	
12	Light	
13	Waves	
14	Electromagnetic Waves	
15	Sound	
16	Static Electricity	
17	Current Electricity	
18	D.C. Circuits	
19	Practical Electricity	

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PURE CHEMISTRY

Duration of Examination: Paper 1: 1 hour

Paper 2: 1 hour 45 minutes

Chapter	Topics	Format/ Weightings
1	Kinetic Particle Theory	<u>Paper 1</u> (40 marks) Multiple Choice Questions
2	Measurement and Experimental Techniques	
3	Separation and Purification	<u>Paper 2</u> Section A (50 marks) Structured Questions)
4	Elements, Compounds and Mixtures	
5	Atomic Structure	Section B (30 marks) Free Response Questions
6	Ionic Bonding	
7	Covalent and Metallic Bonding	
8	Writing Chemical Equations	
9	The Mole	
10	Chemical Calculations	
11	Acids and Bases	
12	Salts	
13	Oxidation and Reduction	
14	Metals	
15	Electrolysis	Total: 120 marks
16	The Periodic Table	
17	Energy Changes	
18	Speed of Reaction	
19	Ammonia	
20	The Atmosphere and Environment	
21	An Introduction to Organic Chemistry	
22	Alkanes and Alkenes	
23	Alcohols and Carboxylic Acids	
24	Macromolecules	

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PURE BIOLOGY

Duration of Examination: Paper 1: 1 hour

Paper 2: 1 hour 45 minutes

S/N	Topics	Format/ Weightings
1	Cells	<p>Paper 1 (40 marks) Multiple Choice Questions</p> <p>Paper 2 Section A (50 marks) Structured Questions</p> <p>Section B (30 marks) Free Response Questions</p> <p>Total: 120 marks</p>
2	Movement of Substances	
3	Nutrients	
4	Enzymes	
5	Nutrition in Humans	
6	Nutrition in Plants	
7	Transport in Plants	
8	Transport in Humans	
9	Respiration in Humans	
10	Excretion in Humans	
11	Homeostasis	
12	The Nervous System	
13	The Human Eye	
14	Hormones	
15	Cell Division	
16	Reproduction in Plants	
17	Reproduction in Humans	
18	Heredity	
19	Molecular Genetics	

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SCIENCE (Physics, Chemistry)

Duration of Examination: Paper 1: 1 hour

Paper 2/3: 1 hour 15 minutes

Paper 5: 1 hour 30 minutes

S/N	Topics	Format/ Weightings
<u>Physics</u>		
1	Measurement	<u>Paper 1 (30 marks)</u> Multiple Choice Questions
2	Kinematics	
3	Forces and Pressure	<u>Paper 2 (Physics)</u>
4	Mass Weight and Density	
5	Turning effects of Forces	
6	Energy, Work and Power	<u>Section A (45 marks)</u> Structured Questions
7	Kinetic Model of Matter	<u>Section B (20 marks)</u> Free Response Questions Choose 2 out of 3 questions
8	Transfer of Thermal Energy	
9	Thermal Properties of Matter	
10	Light	
11	Waves	<u>Paper 3 (Chemistry)</u>
12	Electromagnetic Waves	
13	Sound	<u>Section A (45 marks)</u> Structured Questions
14	Static Electricity	<u>Section B (20 marks)</u> Free Response Questions Choose 2 out of 3 questions
15	Current Electricity	
16	D.C. Circuits	
17	Practical Electricity	
<u>Chemistry</u>		
1	Kinetic Particle Theory	<u>Paper 5 (Physics/Chemistry)</u>
2	Measurement and Experimental Techniques	<u>Lab-based work (30 marks)</u>
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	
		Total: 200 marks

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15	Energy Changes	
16	Speed of Reaction	
17	The Atmosphere and Environment	
18	An Introduction to Organic Chemistry	
19	Alkanes and Alkenes	

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SCIENCE (Chemistry, Biology)

Duration of Examination: Paper 1: 1 hour

Paper 3/4: 1 hour 15 minutes

Paper 5: 1 hour 30 minutes

S/N	Topics	Format/ Weightings
<u>Chemistry</u>		
1	Kinetic Particle Theory	<u>Paper 1 (30 marks)</u> Multiple Choice Questions
2	Measurement and Experimental Techniques	
3	Separation and Purification	
4	Elements, Compounds and Mixtures	<u>Paper 3 (Chemistry)</u>
5	Atomic Structure	<u>Section A (30 marks)</u> Structured Questions
6	Chemical Bonding	
7	Writing Chemical Equations	<u>Section B (20 marks)</u> Free Response Questions Choose 2 out of 3 questions
8	The Mole	
9	Chemical Calculations	
10	Acids and Bases	
11	Salts	
12	Oxidation and Reduction	<u>Paper 4 (Biology)</u>
13	Metals	
14	The Periodic Table	
15	Energy Changes	
16	Speed of Reaction	
17	The Atmosphere and Environment	
18	An Introduction to Organic Chemistry	
19	Alkanes and Alkenes	<u>Section A (30 marks)</u> Structured Questions
<u>Biology</u>		<u>Section B (20 marks)</u> Free Response Questions Choose 2 out of 3 questions
1	Cells	Total: 130 marks
2	Movement of Substances	
3	Nutrients	
4	Enzymes	
5	Nutrition in Humans	
6	Nutrition in Plants	
7	Transport in Plants	
8	Transport in Humans	
9	Respiration in Humans	
10	The Nervous System	
11	The Human Eye	
12	Hormones	
13	Reproduction in Plants	
14	Reproduction in Humans	
15	Heredity	
16	Molecular Genetics	

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MATHEMATICS

Duration of Examination: 2 hour (Paper 1) & 2 Hour and 30 minutes (Paper 2)

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
	1.1 Numbers and Operation	
	1.2 Ratio, Rate and Proportion	
	1.3 Percentage	
	1.4 Speed	
	1.5 Algebraic Representation and Formulae	
	1.6 Algebraic Manipulation	
	1.7 Functions and Graphs	
	1.8 Solutions of Equations and Inequalities	
	1.9 Applications of Mathematics in Practical Situations	
	1.10 Set Language and Notation	
	1.11 Matrices	
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 Handling	
	3.2 Data Analysis	
	3.3 Probability	

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ADDITIONAL MATHEMATICS

Duration of Examination: 2 hour (Paper 1) & 2 Hour and 30 minutes (Paper 2)

S/N	Topics	Format / Weightings
1	Chapter 1: Simultaneous Equations, Polynomials & Partial Fractions	Paper 1: 80 marks (44%) 2hr Calculators Allowed
2	Chapter 2: Quadratic Equations, Inequalities & Modulus Functions	
3	Chapter 3: Binomial Theorem	
4	Chapter 4: Indices, Surds and Logarithms	
5	Chapter 5: Coordinate Geometry	
6	Chapter 6: Further Coordinate Geometry	
7	Chapter 7: Linear Law	
8	Chapter 8: Trigonometric Functions and Equations	Paper 2: 100 marks (56%) 2hr 30min Calculators Allowed
9	Chapter 9: Trigonometric Identities and Formulae	
10	Chapter 11: Differentiation and its Application	
11	Chapter 12: Further Application of Differentiation	
12	Chapter 13: Differentiation of Trigonometric, Logarithmic & Exponential Functions and their Applications	
13	Chapter 14: Integration	
14	Chapter 15: Applications of Integration	
15	Chapter 16: Kinematics	

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COMBINED HUMANITIES (Social Studies/ Geography)
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Duration of Examination: 1 hour 45 minutes for Social Studies and 1 hour 40 minutes for Geography

S/N	Topics	Format/ Weightings
<u>Social Studies</u>		
1	<u>All chapters in Book 3</u> <ul style="list-style-type: none"> • Chapter 2: Governance in Singapore • Chapter 3: Managing Healthcare: A Case Study of Singapore • Chapter 4: Conflict in Multi-Ethnic Societies: Case Studies of Sri Lanka And Northern Ireland • Chapter 5: Bonding Singapore • Chapter 6: Diplomacy and Deterrence <u>One Chapter in Book 4</u> <ul style="list-style-type: none"> • Chapter 1: Iraq Kuwait War and Terrorism • Chapter 2: Globalisation • Chapter 3: Rise and Fall of Venice 	<u>Section A</u> Source-Based Case Study (35 marks) <u>Section B</u> Structured Essay Question (15 marks) Total mark is 50.
<u>Geography</u>		
1	<u>Physical Geography</u> <ul style="list-style-type: none"> • Plate Tectonic (Gateways 1 - 3) • Weather & Climate (Gateway 1 & 2) <u>Human Geography</u> <ul style="list-style-type: none"> • Tourism (Gateways 1 – 3) • Food Resource (Partial Gateway 1) 	<u>Section A</u> Field Study– Geographical Skills and Investigations (13 marks) <u>Section B</u> Structured Questions (12 marks)
2	Chapter 3: Geographical Skills and Investigations <ul style="list-style-type: none"> • Gateway 2: Geographical data and techniques (Graphs) • Gateway 3: Geographical investigations 	<u>Section C</u> Structured Essay Questions (25 marks)

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COMBINED HUMANITIES (Social Studies/ History)
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Duration of Examination: 1 hour 45 minutes for Social Studies and 1 hour 40 minutes for History

S/N	Topics	Format/ Weightings
<u>Social Studies</u>		
1	<u>All chapters in Book 3</u> <ul style="list-style-type: none"> • Chapter 2: Governance in Singapore • Chapter 3: Managing Healthcare: A Case Study of Singapore • Chapter 4: Conflict in Multi-Ethnic Societies: Case Studies of Sri Lanka And Northern Ireland • Chapter 5: Bonding Singapore • Chapter 6: Diplomacy and Deterrence <u>One Chapter in Book 4</u> <ul style="list-style-type: none"> • Chapter 1: Iraq Kuwait War and Terrorism • Chapter 2: Globalisation • Chapter 3: Rise and Fall of Venice 	<u>Section A</u> Source-Based Case Study (35 marks) <u>Section B</u> Structured Essay Question (15 marks) Total mark is 50.
<u>History</u>		
1	<u>Chapters 1, 2, 3 and 4 of Sec 4 textbook</u> <ul style="list-style-type: none"> • Reasons for Cold War, Korean War, Cuban Missile Crisis and End of Cold War 	<u>Section A</u> Source-Based Case Study (30 marks) <u>Section B</u> Structured Essay Question (20 marks) Total mark is 50.

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COMBINED HUMANITIES (Social Studies/ Literature)

Duration of Examination: 1 hour 45 minutes for Social Studies and 1 hour 40 minutes for Literature

S/N	Topics	Format/ Weightings
<u>Social Studies</u>		
1	<p><u>All chapters in Book 3</u></p> <ul style="list-style-type: none"> • Chapter 2: Governance in Singapore • Chapter 3: Managing Healthcare: A Case Study of Singapore • Chapter 4: Conflict in Multi-Ethnic Societies: Case Studies of Sri Lanka And Northern Ireland • Chapter 5: Bonding Singapore • Chapter 6: Diplomacy and Deterrence <p><u>One Chapter in Book 4</u></p> <ul style="list-style-type: none"> • Chapter 1: Iraq Kuwait War and Terrorism • Chapter 2: Globalisation • Chapter 3: Rise and Fall of Venice 	<p><u>Section A</u> Source-Based Case Study (35 marks)</p> <p><u>Section B</u> Structured Essay Question (15 marks)</p> <p>Total mark is 50.</p>
<u>Literature</u>		
1	<p><u>Prose: Lord of The Flies</u></p> <ul style="list-style-type: none"> - Plot & Structure - Characterisation - Themes - Setting - Style 	<p>Section A Essay questions OR Passage-based essay questions (25 marks)</p> <p>Section B Poem-based essay questions OR Prose-based essay questions (25 marks)</p> <p>Total Marks: 50</p>
2	<p><u>Unseen Prose:</u></p> <ul style="list-style-type: none"> - Plot and Structure - Language - Characterisation - Tension & Suspense - Themes - Setting - Style <p><u>Unseen Poetry</u></p> <ul style="list-style-type: none"> - Subject Matter & Mood - Theme - Diction - Figurative Language - Rhyme & Rhythm - Sound 	<p>Section A Essay questions OR Passage-based essay questions (25 marks)</p> <p>Section B Poem-based essay questions OR Prose-based essay questions (25 marks)</p> <p>Total Marks: 50</p>

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PRINCIPLES OF ACCOUNTS

Duration of Examination: 3 hours (paper 1: 1 hour; paper 2: 2 hours)

S/N	Topics	Format / Weightings
1	Chapter 1 Introduction to Accounting Chapter 2 The Accounting Information System Chapter 3 Elements of the Financial Statements and the Accounting Equation Chapter 4 The concept of Double Entry Chapter 5 Special Journals Chapter 6 Cash Book and Petty Cash Book Chapter 7 Bank Reconciliation Chapter 8 Trial Balance (with adjustments) Chapter 9 Income Statement (with adjustments) Chapter 10 Balance Sheet (with adjustments) Chapter 11 Prepayments and Accruals Chapter 13 Non-current Assets Chapter 14 Trade Receivables Chapter 16 Control Accounts Chapter 17 Correction of Errors Chapter 19 Business Entities: Final accounts for Sole Proprietorship. Chapter 20 Financial Statements Analysis	<u>Paper 1</u> <ul style="list-style-type: none">• 40 marks• Answer all questions <u>Paper 2</u> <ul style="list-style-type: none">• 60 marks• Answer all questions

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DESIGN & TECNOLOGY

Duration of Examination: 2 hours

S/N	Topics	Format / Weightings
1	<p style="text-align: center;">Theory Paper:</p> <p>Part A - Design Process - Research Design Process - Ergonomics Design Process - Evaluation Design Process – Project Mgt Design Process- Society and Environment Design Process- Communication</p> <p>Part B- Structures Mechanism Electronics</p>	<p>100 marks / 40%</p> <p>Part A: 40marks Part B: 60 marks</p>
2	Coursework	<p>60 marks (60%)</p> <p>Problem based coursework already completed.</p>

ART

Duration of Examination: 3 hours

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: Investigation and Interpretation of Theme (20%) Exploration and Development of Theme (20%) Aesthetic Qualities (20%) Control of Materials and Technical Processes (20%) Personal Response (20%)</p>	100 marks

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FOOD & NUTRITION

Duration of Examination: 2 hours

S/N	Topics	Format / Weightings
1	<u>Theory Paper: Chap 1-19</u> Chapter 1: Energy from Food Chapter 2: Guidelines for Meal Planning Chapter 3: Different Types of Nutritional Needs Chapter 4: Carbohydrates Chapter 5: Food Commodities – Cereals Chapter 6: Fats Chapter 7: Proteins Chapter 8: Food Commodities – Meat & Alternatives Chapter 9: Roles of Enzymes in Digestion Chapter 10: Vitamins Chapter 11: Minerals Chapter 12: Water & Dietary Fibre Chapter 13: Food Commodities – Fruit and Vegetables Chapter 14: Heat Transfer and Methods of Cooking Chapter 15: The Science Behind Food Preparation and Cooking Chapter 16: Sensory Evaluation Chapter 17: Keeping Food Safe Chapter 18: Convenience Food Chapter 19: Food Preservation	100 marks (50%) Section A: 25 marks Short answers structured questions Section B : 30 marks Data based structured questions Section C :45 marks Essay questions
2	Coursework	44 marks (50%) Problem based coursework.