

Sec 3 Express

Subject	Paper	Topics / Skills
English Language	1	Section A - Editing; Section B - Situational Writing; Section C - Continuous Writing
	2	Section A - Visual Text; Section B - Narrative Comprehension; Section C - Non-narrative Comprehension
	3	Listening Comprehension
MT - CL	1	试卷一：实用文/作文
	2	试卷二：语文应用与阅读理解
	3	试卷三：听力理解
	3	试卷三：朗读与会话
MT - ML	1	Karangan
	2	Bahasa
	3	Kefahaman Mendengar
HMT - CL	1	试卷一：实用文/作文
	2	试卷二：语文应用与阅读理解
	3	试卷三：口试
HMT - ML	1	Menulis
	2	Penggunaan Bahasa dan Membaca
	3	Lisan (Pembentangan + Perbualan)

Mathematics	1 & 2	<u>Lower Secondary Topics</u> Numbers and Operations Ratio and Proportion Percentage Rate and Speed Algebraic Fractions and Formulae Equations and Inequalities Angles, Triangles, and Polygons Mensuration Data Handling and Analysis Probability <u>Sec 3 Topics</u> 3E C1 Quadratic and Fractional Equations 3E C2 Simultaneous Linear Inequalities 3E C3 Indices and Standard Form 3E C4 Coordinate Geometry 3E C6 Further Trigonometry 3E C7 Applications of Trigonometry 3E C8 Arc length, Sector Area and Radian Measure 3E C9 Congruence and Similarity Tests 3E C11 Geometrical Properties of Circle
Additional Mathematics	1	Chapter 1: Quadratic Functions Chapter 2: Equations and Inequalities Chapter 3: Surds Chapter 4: Polynomials and Partial Fractions Chapter 5: Exponential & Logarithmic Functions Chapter 7: Coordinate Geometry Chapter 8: Circles Chapter 10.1: Trigonometric Functions of Angles
Social Studies	1	Section A: 1. Topic from Issue 2 2. Skills: Inference, Message, Comparison, Cross-reference, Critical analysis Section B: 1. Topic from Issue 1 2. Skills: Constructing explanations on given issue
Humanities - Geography	2	Chapter 1: Living with tectonic hazards (until risks and benefits of volcanoes --> exclude impacts of earthquakes, responses to earthquakes) Chapter 2: Variable weather and climate

Humanities - History	2	<p>Topics</p> <p>Chapter 1: End of WW1 in Europe Chapter 2: Stalin's USSR Chapter 3: Hitler's Germany Chapter 4: Outbreak of WW2 in Europe</p> <p>Skills</p> <p>SBQ: Making inferences; cross referencing; analysing author's bias/intent; comparison; evaluation SEQ: Explaining cause and effect; evaluation of factors</p>
Humanities - Literature	2	<p>Topics</p> <p>Novel: Fahrenheit 451 by Ray Bradbury Poetry: Unseen Poetry</p> <p>Skills</p> <p>Passage-Based Question Literary Analysis</p>
Chemistry	1 & 2	<p>1) Kinetic Particle Theory 2) Atomic Structure 3) Bonding & Properties of Materials 4) Writing balanced chemical & ionic equations with state symbols 5) Periodic Table 6) Acids & Alkalis 7) Classification of Oxides 8) Preparation of Salts 9) Redox 10) Metals</p>
Physics	1 & 2	<p>C1 - Measurement C2 - Kinematics C3 - Vector Diagrams C8 - Temperature C9 - Kinetic Model of Matter C10 - Transfer of Thermal Energy C11 - Thermal Properties of Matter C12 - Light C13 - Waves C14 - Electromagnetic Waves C15 – Sound</p>

Biology	1 & 2	C2 - Cells C3 - Movement of Substances C4 - Nutrients C5 - Enzymes C6 - Nutrition in Humans C8 - Transport in Humans C10 - Respiration in Humans C11 - Excretion
Science - Biology	1 & 4	C2 - Cells C3 - Movement of Substances C4 - Nutrients C5 - Enzymes C6 - Nutrition in Humans C8 - Transport in Humans C10 - Respiration in Humans
Science - Physics	1 & 2	C1 Measurement and Units C2 Kinematics C7 Kinetic Model of Matter C8 Transfer of Thermal Energy C9 Thermal Properties of Matter C10 Light C11 Waves C12 Electromagnetic Waves C13 Sound
Science - Chemistry	1 & 3	1) Kinetic Particle Theory 2) Measurements & Experimental Techniques 3) Methods of Purification & Separation 4) Atomic Structure 5) Bonding & Properties of Materials 6) Writing Ionic Formulas 7) Balancing Chemical Equations 8) Periodic Table 9) Acids & Alkalis 10) Classification of Oxides 11) Preparation of Salts

Geography	1	Paper 1 1 question on GI 1 question on Coasts Chapters Tested: Chapter 1: Coast
	2	Paper 2 1 question on Plate Tect 1 question on Weather & Climate Chapters tested: Chapter 2: Living with Tectonic Hazards (until risks and benefits of volcanoes --> exclude impacts of earthquakes, responses to earthquakes) Chapter 3: Variable weather and climate
History	1	Chapter 2: Stalin's USSR Chapter 3: Hitler's Germany Chapter 4: Reasons for outbreak of WWII in Germany Chapter 6: Reasons for outbreak of WWII in Asia-Pacific
	2	Chapter 1: Outbreak of Cold War in Europe Chapter 2: Korean War <u>Skills</u> SBQ - Making simple inferences, inferring author's thoughts and feelings, inferring author's purpose, cross-referencing, bias analysis, making comparisons
Literature	1	<u>Topics</u> Novel: Fahrenheit 451 by Ray Bradbury Poetry: Unseen Poetry <u>Skills</u> Passage-Based Question Literary Analysis
	2	<u>Topics</u> Drama: Boom by Jean Tardieu <u>Skills</u> Passage-Based Question Essay Writing Literary Analysis

Electronics	1	C1 - Electronic Systems C2- Current Electricity C3- Resistors C4- Circuit Theories C5- Alternating Currents C6- Capacitors C7- Semiconductor Diodes C8- Input and Output Transducers C9- Bipolar Junction Transistors
Art	2	- 3 to 5 pages of preparatory work based on chosen theme - Final artwork
Nutrition and Food Science (NFS)	1	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 12 – Methods of cooking Chapter 13 – Reaction in food during preparation and cooking