



**ST ANDREW'S SCHOOL (SECONDARY)**  
**Overview of School Based Assessments**

**Secondary 4 and 5**

**Normal Technical**

Subject	Format	Duration	Mode	Scope
<b>NT Weighted Assessment 1</b>				
<b>English</b>	Oral	Please refer to the WA1 schedule	e-assessment	Refer to the notes provided by the EL teacher
<b>Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Sec 1 to Sec 3 topics  Sec 4: Chapter 1: Fractional Equations Chapter 2: Graphs of Quadratic Functions
<b>Science</b>	Multiple-Choice Questions	30 minutes	e-assessment	Chapter 7: Food Safety Chapter 8: Staying Healthy Chapter 9: Digestion
<b>Mother Tongue</b>	Blog response	40 minutes	e-assessment	Skills taught in Sec 4 text/workbooks
<b>Computer Applications</b>	Multiple choice and Structured Questions	40 minutes	e-assessment	Computer Fundamental (Sec 1 to Sec 4)
<b>Social Studies</b>	Performance task	Please refer to the WA1 schedule	Project	Topics taught in Sec 4 text/workbooks
<b>Elements of Business Skills</b>	Coursework	Please refer to the WA1 schedule	e-assessment	Topics taught in Sec 4 text/workbooks

**NT Weighted Assessment 2**

<b>English</b>	Comprehension	40 minutes	Pen and Paper	Part 4 of Paper 2
<b>Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Sec 1 to Sec 3 topics  Sec 4: Chapter 3: Quadratic Equations Chapter 4: Trigonometry
<b>Science</b>	Multiple-Choice & Structured Questions	40 minutes	Pen and Paper	Chapter 10: Breathing Chapter 11: Blood Circulation Chapter 5: Sources of Food
<b>Mother Tongue</b>	Multiple-Choice Questions	40 minutes	e-assessment	Skills taught in Sec 4 text/workbooks
<b>Elements of Business Skills</b>	Mixed Question Types	40 minutes	Pen and Paper	Whole book
<b>Computer Applications</b>	Practical Test	40 minutes	Practical	SST (Spreadsheet)

**NT Preliminary Examination**

<b>English</b>	Paper 1: 1 Writing Section A: Grammar Editing Section B: Situational Writing Section C: Continuous Writing Paper 2: Language Use and Comprehension Section A: Language Use	Paper 1: 1 hour 20 minutes  Paper 2: 1 hour 20 minutes  Paper 3: 45 minutes	e-assessment	All skills taught in Sec 1 - 4
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	<p>Part 1: Modified Cloze I</p> <p>Part 2: Modified Cloze II</p> <p>Section B: Reading Comprehension</p> <p>Part 3: Comprehension I</p> <p>Part 4: Comprehension II</p> <p>Paper 3: Listening</p> <p>Paper 4 Oral Communication</p> <p>Part 1: Reading Aloud</p> <p>Part 2: Spoken Interaction</p>			
<b>Mathematics</b>	<p>Structured Questions</p> <p>Approved scientific calculators allowed</p>	<p>Paper 1: 1 hour 30 minutes</p> <p>Paper 2: 1 hour 30 minutes</p>	Pen and Paper	All topics taught in Sec 1 to Sec 4.
<b>Science</b>	<p>P1 (50)</p> <p>Section A: MCQ + Selected Response,</p> <p>Section B: Short Answer, Structured with Video, Animation, Interactive Stimuli (VAI)</p> <p>P2 (50)</p> <p>Short Answer + Structured</p>	<p>Paper 1: 1 hour 15 minutes</p> <p>Paper 2: 1 hour</p>	<p>Paper 1: e-assessment</p> <p>Paper 2: Pen and Paper</p>	<p>Chapter 1: Energy</p> <p>Chapter 2: Electricity</p> <p>Chapter 3: Wave</p> <p>Chapter 4: Effects of Force</p> <p>Chapter 6: Food Chemistry</p> <p>Chapter 7: Food Safety</p> <p>Chapter 8: Staying Healthy</p> <p>Chapter 9: Digestion</p> <p>Chapter 10: Breathing</p> <p>Chapter 11: Blood Circulation</p> <p>Chapter 5: Sources of Food</p>

<b>Mother Tongue</b>	Paper 1: Blog response Paper 2: Comprehension and Language Use Paper 3: Oral and Listening Comprehension	Paper 1: 30 minutes  Paper 2: 40 minutes  Paper 3: Oral (15 minutes) and Listening Comprehension (30 minutes)	e-assessments	All skills taught in Sec 1 - 4
<b>Elements of Business Skills</b>	Mixed Question Types	1 hour 30 minutes	Pen and Paper	Whole book
<b>Computer Applications</b>	Paper 1 - Multiple-Choice and Structured Questions Paper 2 - Practical Paper Paper 3 - Practical Paper	Paper 1: 1hour 15 minutes  Paper 2: 1hour 30 minutes  Paper 3: 1hour 30 minutes	Paper 1 – Pen and Paper Paper 2 & 3 – Practical	Paper 1 - CPF, DOP, SST, AGM, IMC & MEL Paper 2 - MEL, DOP & IMC Paper 3 - Video Editing, SST, AGM

## Normal Academic

Subject	Format	Duration	Mode	Scope
<b>NA Weighted Assessment 1</b>				
<b>English</b>	Oral	Please refer to the WA1 schedule	e-assessment	Refer to the notes provided by the EL teacher
<b>English Literature</b>	Project	Please refer to the WA1 schedule	e-assessment	<i>Romeo and Juliet</i>
<b>Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Chapter 1: Applications of Trigonometry Chapter 2: Arc Lengths, Sector Areas and Radian Measure Chapter 3: Data Analysis – Measures of Spread
<b>Additional Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Chapter 7: Coordinate Geometry Chapter 10 & 11: Trigonometry
<b>Principles of Accounts</b>	Structured Questions	40 minutes	Pen and Paper	Chapter 11: Non-current Assets (Except 11.2, 11.6 and 11.7) Chapter 12: Trade Payables

				Chapter 10: Trade Receivables (Only 10.3)
<b>Combined Science (Chem)</b>	Multiple-Choice Questions	35 minutes	e-assessment	Chapter 7: Mole Concept and Stoichiometry (exclude 7.3: Stoichiometry) Chapter 11: The Periodic Table Chapter 12: The Reactivity Series
<b>Combined Science (Phy)</b>	Multiple-Choice Questions	35 minutes	e-assessment	Chapter 11: Electromagnetic Spectrum  Chapter 13: Electric Charge & Current of Electricity
<b>Mother Tongue</b>	Open-ended comprehension	40 minutes	e-assessment	Skills taught in Sec 4 text/workbooks
<b>Mother Tongue “B” syllabus</b>	Multiple-Choice Questions	40 minutes	e-assessment	Skills taught in Sec 4 text/workbooks
<b>Music</b>	Coursework	5 hours	Blended	Part 1 Compose based on musical/text/context stimuli:  Criteria:  1. Creation & Devt of Musical Ideas

				<p>2. Musical Coherence</p> <p>3. Compositional Understanding of Chosen Medium</p> <p>4i. Communication of Compositional Intentions (Score) OR</p> <p>4ii. Communication of Compositional Intentions in Technological Format (Recording)</p> <p>Part 2 (Reflection Notes) 300-400 words</p> <ul style="list-style-type: none"><li>- With guided questions and teacher's supervision</li><li>- Understanding of the creative/ technical challenges in music selected for the performance</li><li>- Reflection on the musical decisions made in the process of preparation for the performance, including an understanding of the musical styles or contexts that influence their decisions</li><li>- Use of appropriate technical vocabulary</li></ul>
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<b>Humanities (History)</b>	Essay	30 minutes	Pen and Paper	Defeat of Japan / Germany
<b>Humanities (Geography)</b>	Structured Questions	40 minutes	Pen and Paper	Geography in Everyday Life & Tectonics
<b>Humanities (Social Studies)</b>	Structured Questions	30 minutes	Hybrid: Pen and Paper and e-assessment	Study all Sources Question: Issue 2
<b>Art</b>	Portfolio	Refer to the WA 1 schedule	Art Task	Visual Materials
<b>Nutrition &amp; Food Science</b>	Multiple-Choice, short-answer and Open-ended questions.	45 minutes	Pen and Paper	Diet & health problems, Methods of cooking Meal analysis Meal planning Reactions in Food during Cooking Preparation & cooking of food Food Safety Sensory evaluation of food
<b>Design &amp; Technology</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Topic: Electronics
<b>NA Weighted Assessment 2</b>				
<b>English</b>	Comprehension	40 minutes	Pen and Paper	Narrative Comprehension (Text 3)
<b>English Literature</b>	Passage-Based Question	40 minutes	Pen and Paper	<i>Romeo &amp; Juliet</i>
<b>Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Chapter 3: Data Analysis – Measures of Spread Chapter 4: Probability

				Chapter 5: Properties of Circles
<b>Additional Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Chapter 8: Circles Chapter 12: Differentiation Chapter 13: Tangents, Normals and Rates of Change
<b>Principles of Accounts</b>	Structured Questions	40 minutes	Pen and Paper	Chapter 10: Trade Receivables (Except 10.3) Chapter 14: Equities (Only 14.1 to 14.4) Chapter 13: Long-term Borrowings
<b>Combined Science (Chem)</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Chapter 15: Fuels and Crude Oil Chapter 16: Hydrocarbons Chapter 18: Polymers Chapter 19: Maintaining Air Quality
<b>Combined Science (Phy)</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	13) Elec Charge & Current of Electricity 14) D.C. Circuits 15) Practical Electricity
<b>Mother Tongue</b>	Essay	40 minutes	Pen and Paper	Expository
<b>Mother Tongue “B” syllabus</b>	Multiple-Choice Questions	40 minutes	e-assessment	Skills taught in Sec 4 text/workbooks

<b>Music</b>	Music studies	35 minutes	Pen and Paper	<ul style="list-style-type: none"> <li>• Western Classical Tradition (Classical Era and Romantic Symphony)</li> <li>• Jazz and Popular Music (Cool Jazz and Bebop)</li> <li>• Asian Music (Indian Ensemble Music and Javanese Gamelan)</li> </ul>
<b>Humanities (History)</b>	Source-based Questions	30 minutes	Pen and Paper	Origin of Cold War
<b>Humanities (Geography)</b>	Structured Questions	40 minutes	e-assessment	Geography in Everyday Life & Tectonics
<b>Humanities (Social Studies)</b>	Structured Questions	30 minutes	Hybrid: Pen and Paper and e-assessment	Purpose and Utility Question: Issue 3
<b>Nutrition &amp; Food Science</b>	Multiple-Choice, short-answer and Open-ended questions.	45 minutes	Pen and Paper	Topics: Proteins, Carbohydrates, Fats, Vitamins, Minerals Water & Dietary Fiber & Convenience food
<b>Design &amp; Technology</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Topic: Mechanism
<b>NA Preliminary Examination</b>				
<b>English</b>	Paper 1: Writing Section A: Grammar Editing Section B: Situational Writing	Paper 1: 1 hour 50 minutes  Paper 2: 1 hour 50 minutes	Pen and Paper	All skills taught in Sec 1 - 4

	<p>Section C: Continuous Writing</p> <p>Paper 2 Comprehension</p> <p>Section A: Text Response (Inclusive of Visual Text)</p> <p>Section B: Text Response (Narrative/Recount)</p> <p>Section C: Text Response(non-narrative) + Summary Writing</p> <p>Paper 3 Listening</p> <p>Paper 4 Oral Communication</p> <p>Part 1: Planned Response</p> <p>Part 2: Spoken Interaction</p>	<p>Paper 3: 45 minutes</p>		
<b>English Literature</b>	<p>Paper 1</p> <p>Section A: <i>The Chrysalids</i></p> <p>Section B: Unseen Poetry</p> <p>Paper 2</p> <p><i>Romeo &amp; Juliet</i></p> <p>- Attempt 1 essay question and 1 Passage-Based Question</p>	<p>Paper 1: 1 hour 40 minutes</p> <p>Paper 2: 1 hour 30 minutes</p>	Pen and Paper	<p>Paper 1: <i>The Chrysalids</i></p> <p>Poetry</p> <p>Paper 2: <i>Romeo &amp; Juliet</i></p>
<b>Mathematics</b>	<p>Structured Questions</p> <p>Approved scientific calculators allowed</p>	<p>Paper 1: 2 hours</p> <p>Paper 2: 2 hours</p>	Pen and Paper	All topics taught in Sec 1 to Sec 4
<b>Additional Mathematics</b>	<p>Structured Questions</p> <p>Approved scientific calculators allowed</p>	<p>Paper 1: 1 hour 45 minutes</p> <p>Paper 2: 1 hour 45 minutes</p>	Pen and Paper	All topics taught in Sec 3 & Sec 4

<b>Principles of Accounts</b>	Paper 1 Answer three to four compulsory questions. Paper 2 Answer four compulsory questions. One question requires the preparation of financial statements (20 marks) and one scenario-based question (5 marks).	Paper 1: 1 hour  Paper 2: 2 hours	Pen and Paper	All topics taught in Sec 3 & Sec 4
<b>Combined Science (Phy)</b>	Multiple-Choice and Structured questions.	1 hour 15 minutes	Pen and Paper	<ul style="list-style-type: none"> <li>1) Physical Quantities, Units and Measurements</li> <li>2) Kinematics</li> <li>3) Force and Pressure</li> <li>4) Dynamics</li> <li>6) Energy</li> <li>7) Kinetic Particle Model of Matter</li> <li>8) Thermal Processes</li> <li>9) Wave Property</li> <li>11) EM Waves</li> <li>13) Elec Charge, Current Elec</li> <li>14) DC Circuit</li> <li>15) Practical Electricity</li> <li>17) Radioactivity</li> </ul>
<b>Combined Science (Chem)</b>	Multiple-Choice and Structured questions.	1 hour 15 minutes	Pen and paper	<ul style="list-style-type: none"> <li>Chapter 1: Experimental Chemistry</li> <li>Chapter 2: Kinetic Particle Theory</li> <li>Chapter 3: Atomic Structure</li> <li>Chapter 4: Chemical Bonding</li> </ul>

				<p>Chapter 5: Structure and Properties of Materials</p> <p>Chapter 6: Chemical Formulae and Equations</p> <p>Chapter 7: Mole Concept and Stoichiometry</p> <p>Chapter 8: Acids and Bases</p> <p>Chapter 11: The Periodic Table</p> <p>Chapter 12: The Reactivity Series</p> <p>Chap 15: Fuels and Crude Oil</p> <p>Chap 16: Hydrocarbons</p> <p>Chap 18: Polymers</p> <p>Chap 19: Maintaining Air Quality</p>
<b>Mother Tongue</b>	<p>Paper 1: Email and Essay writing</p> <p>Paper 2: Comprehension and Language Use</p> <p>Paper 3: Oral and Listening Comprehension</p>	<p>Paper 1: 2 hours</p> <p>Paper 2: 1 hour 30 minutes</p> <p>Paper 3: Oral (20 minutes) and Listening Comprehension (30 minutes)</p>	<p>Paper 1 - Pen and Paper</p> <p>Paper 2 - e-assessment</p>	All skills taught in Sec 1 - 4
<b>Mother Tongue "B" syllabus</b>	<p>Paper 1: Composition</p> <p>Paper 2: Comprehension and Language Use</p> <p>Paper 3: Oral and Listening Comprehension</p>	<p>Paper 1: 50 minutes</p> <p>Paper 2: 1 hour</p> <p>Paper 3:</p>	e-assessment	All skills taught in Secondary 1 - 4

		Oral (20 minutes) and Listening Comprehension (30 minutes)		
<b>Music</b>	Music Studies, Coursework and Performance (P1, P2 and P3)	Paper 1: 1hour 30minutes  Paper 2: 5 hours  Paper 3: 30 minutes per student	Paper 1: Pen & Paper  Paper 2: Creating  Paper 3: Performing	<ul style="list-style-type: none"> <li>● Western Classical Tradition</li> <li>● Jazz</li> <li>● Popular Music</li> <li>● Asian Music</li> </ul>
<b>Humanities (Social Studies)</b>	Section A [35marks] - SBQ Section B [15marks] - SRQ	1 hour 45 minutes	Hybrid: Pen and Paper and e-assessment	All chapters
<b>Humanities (History)</b>	Section A [30marks] - SBQ Section B [20marks] - SEQ	1 hour 50 minutes	Pen and Paper	All chapters
<b>Humanities (Geography)</b>	Structured questions	1 hour 45 minutes	Pen and Paper	Geography in Everyday Life & Tectonics
<b>Nutrition and Food Science</b>	Multiple-Choice, short-answer and Open-ended questions.	1 hour 30 minutes	Pen and Paper	All chapters (exclude chapter 10)
<b>Design &amp; Technology</b>	Structured Questions Approved scientific calculators allowed	Theory paper: 1.5 hours  Deadline for coursework – 3 July	Written exam (Pen and paper) + Coursework components	All topics (Mechanism / Electronics/ Design/ Technical skills)

## 4 Express and 5 Normal Academic

Subject	Format	Duration	Mode	Scope
<b>4Exp &amp; 5NA Weighted Assessment 1</b>				
<b>English</b>	Oral	Refer to the WA1 schedule	e-assessment	Refer to the briefing notes provided by the EL teacher
<b>English Literature</b>	4E: Project 5N: Passage-Based Question	4E: Refer to WA1 schedule  5N: 40 minutes	4E: e-assessment 5N: Pen and Paper	<i>Romeo and Juliet</i>
<b>Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Sec 3: Chapter 9: Arc Lengths, Sector Area, Radian Measure Chapter 10: Properties of Circles  Sec 4: Chapter 1: Set Language and Notation Chapter 2: Data Analysis - Measures of Spread
<b>Additional Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	[Sec 4 Express] Chapter 7: Coordinate Geometry Chapter 8: Circles Chapter 11.5 and 11.6: R-Formulae and Applications of Trigonometric Functions  [Sec 5 Normal (Academic)] Chapter 5: Exponential Functions and Logarithmic Functions Chapter 6: Binomial Theorem

				Chapter 9: Applications of Straight Line Graphs
<b>Principles of Accounts</b>	Structured Questions	40 minutes	Pen and Paper	Chapter 12: Trade Payables Chapter 10: Trade Receivables
<b>Combined Science (Phy)</b>	Multiple-Choice Questions	35 minutes	e-assessment	Chapter 12: Light Chapter 13: Electric Charge & Current Electricity
<b>Combined Science (Phy)</b> <i>applicable for Sec 5 only</i>	Multiple-Choice Questions	30 minutes	e-assessment	Chapter 5: Turning Effect of Forces Chapter 9: General Wave Properties I Chapter 10: Sound (general wave properties II)
<b>Combined Science (Chem)</b>	Multiple-Choice Questions	35 minutes	e-assessment	Chapter 7: Mole Concept and Stoichiometry (exclude 7.3: Stoichiometry) Chapter 11: The Periodic Table Chapter 12: The Reactivity Series
<b>Combined Science (Bio)</b>	Multiple-Choice Questions	35 minutes	e-assessment	Chapter 8: Infectious Diseases in Humans Chapter 9: Nutrition and Transport in Flowering Plants
<b>Physics</b>	Multiple-Choice Questions	35 minutes	e-assessment	Chapters 13, 14, 15 13: EM Waves 14: Light 15: Static Electricity
<b>Chemistry</b>	Multiple-Choice Questions	35 minutes	e-assessment	Chapter 14: The Periodic Table Chapter 15: The Reactivity Series
<b>Biology</b>	Multiple-Choice Questions	35 minutes	e-assessment	Ch 8. Excretion in Humans Ch 9. Homeostasis and Hormonal Control Ch 10. The Nervous System and the Eye

<b>Mother Tongue</b>	Open-ended comprehension	40 minutes	Pen and Paper	Skills taught in Sec 4 text/workbooks
<b>Mother Tongue “B” syllabus</b>	Multiple-Choice Questions	40 minutes	e-assessment	Skills taught in Sec 4 text/workbooks
<b>History (2174)</b>	Essay	40 minutes	e-assessment	End of WW2
<b>Humanities (Hist)</b>	Essay	30 minutes	Pen and Paper	Defeat of Japan / Germany
<b>Humanities (Geo)</b>	Structured Questions	40 minutes	Pen and Paper	Geography in Everyday Life & Tourism
<b>Social Studies</b>	Structured Questions	30 minutes	Pen and Paper	Study all Sources Question: Issue 2
<b>Art</b>	Portfolio	Refer to the WA1 schedule	Art Task	Visual materials
<b>Music</b>	Coursework	5 hours	Blended	<p>Part 1 Compose based on musical/text/context stimuli:  Criteria:  1. Creation &amp; Devt of Musical Ideas  2. Musical Coherence  3. Compositional Understanding of Chosen Medium  4i. Communication of Compositional Intentions (Score) OR  4ii. Communication of Compositional Intentions in Technological Format (Recording)  Part 2 (Reflection Notes) 300-400 words  - With guided questions and the teacher's supervision  - Understanding of the creative/ technical challenges in music selected for the performance  - Reflection on the musical decisions made in the process of preparation for the performance, including an understanding of the musical styles or contexts that influence their decisions  - Use of appropriate technical vocabulary</p>

<b>Design &amp; Technology</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Topic: Structure
<b>4Exp &amp; 5NA Weighted Assessment 2</b>				
<b>English</b>	Comprehension	40 minutes	Pen and Paper	Narrative comprehension
<b>English Literature</b>	Passage-Based Question	40 minutes	Pen and Paper	<i>Romeo and Juliet</i>
<b>Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	[4 Express] Chapter 2: Data Analysis - Measures of Spread Chapter 3: Probability Chapter 4: Matrices  [5 Normal (Academic)] Matrices Sketching the Graphs of Quadratic Functions Simultaneous Linear Inequalities Conditions of Congruence and Similarity
<b>Additional Mathematics</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	[Sec 4 Express] Chapter 9: Applications of Straight Line Graphs Chapter 12: Differentiation Chapter 15: Differentiation of Trigonometric, Exponential and Logarithmic Functions Chapter 13: Tangents, Normals and Rates of Change  [Sec 5 Normal (Academic)] Chapter 12: Differentiation Chapter 13: Tangents, Normals and Rates of Change Chapter 14: Maxima and Minima problems

				Chapter 15: Differentiation of Trigonometric, Exponential and Logarithmic Functions
<b>Principles of Accounts</b>	Structured Questions	40 minutes	Pen and Paper	Chapter 14: Equities Chapter 15: Correction of Errors Chapter 16: Financial Statements Analysis (Only 16.2)
<b>Combined Science (Phy)</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Chp 14: DC Circuits, Chp 15: Practical electricity, Chp16: Magnetism & electromagnetism
<b>Combined Science (Phy)</b> <i>applicable for Sec 5 only</i>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Chapter 12: Light Chp 13: Electric Charge & Current electricity Chapter 16: Magnetism and Electromagnetism
<b>Combined Science (Chem)</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Chapter 9: Qualitative Analysis Chapter 10: Oxidation and Reduction Chapter 13: Chemical Energetics Chapter 14: Rate of Reactions
<b>Combined Science (Bio)</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Chapter 9: Nutrition and Transport in Flowering Plants Chapter 10: Organisms and Their Environment Chapter 11: Molecular Genetics
<b>Physics</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Chapters 1 to 7, 16, 17, 18 1. Physical Quantities, Units and Measurements 2. Kinematics 3. Dynamics: Mass & Weight

				4. Dynamics: Forces 5. Turning Effects of Forces 6. Pressure 7. Energy 16 Current of Electricity 17 D.C. Circuits 18 Practical Electricity
<b>Chemistry</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Chapter 11: Qualitative Analysis Chapter 12: Oxidation and Reduction Chapter 13: Electrochemistry Chapter 16: Chemical Energetics Chapter 17: Rate of Reactions
<b>Biology</b>	Multiple-Choice and Structured Questions	40 minutes	Pen and Paper	Ch 11. Infectious Diseases in Humans Ch 14. Molecular Genetics Ch 15. Modes of Reproduction Ch 16. Reproduction in Plants
<b>Mother Tongue</b>	Essay	40 minutes	Pen and Paper	Expository
<b>Higher Chinese</b>	Comprehension	40 minutes	Pen and Paper	Skills taught in Sec 4 text/workbooks
<b>Mother Tongue “B” syllabus</b>	Multiple-Choice Questions	40 minutes	e-assessment	Skills taught in Sec 4 text/workbooks
<b>History (2174)</b>	SBCS	30 minutes	Hybrid: Hardcopy QP / e-Assessment	Cold War related topics
<b>Combined Humanities (Hist)</b>	Structured Questions	30 minutes	Pen and Paper	Origin of Cold War
<b>Combined Humanities (Geo)</b>	Structured Questions	40 minutes	Pen and Paper	Geography in Everyday Life & Tourism
<b>Social Studies</b>	Structured Questions	30 minutes	Pen and Paper	Purpose and Utility Question: Issue 3

<b>Art</b>	Portfolio	Refer to the WA2 schedule	Art Task	Commentary
<b>Music</b>	Music studies	35 minutes	Pen and Paper	Western Classical Tradition (Classical Era and Romantic Symphony) Jazz and Popular Music (Cool Jazz and Bebop) Asian Music (Indian Ensemble Music and Javanese Gamelan)
<b>Design &amp; Technology</b>	Structured Questions Approved scientific calculators allowed	40 minutes	Pen and Paper	Topic: Electronics

**4Exp & 5NA Preliminary Examination**

<b>English</b>	Paper 1: 1 Writing Section A: Grammar Editing Section B: Situational Writing Section C: Continuous Writing Paper 2 Comprehension Section A: Text Response (Inclusive of Visual Text) Section B: Text Response (Narrative/Recount) Section C: Text Response(non-narrative) + Summary Writing Paper 3 Listening Paper 4 Oral Communication Part 1: Planned Response Part 2: Spoken Interaction	Paper 1:  1 hour 50 minutes  Paper 2: 1 hour 50 minutes  Paper 3: 45 minutes	Pen and Paper	All skills taught in Sec 1-4
<b>English Literature</b>	Paper 1 Section A: <i>The Chrysalids</i> Section B: Unseen Poetry	Paper 1: 1 hour 40 minutes	Pen and Paper	Paper 1: <i>The Chrysalids</i> Poetry

	Paper 2 <i>Romeo &amp; Juliet</i> - Attempt 1 essay question and 1 Passage-Based Question	Paper 2: 1 hour 30 minutes		Paper 2: <i>Romeo &amp; Juliet</i>
<b>Mathematics</b>	Structured Questions Approved scientific calculators allowed	Paper 1: 2 hours 15 minutes  Paper 2: 2 hours 15 minutes	Pen and Paper	[4 Express] All topics taught in Sec 1 to Sec 4  [5 Normal (Academic)] All topics taught in Sec 1 to Sec 5
<b>Additional Mathematics</b>	Structured Questions Approved scientific calculators allowed	Paper 1: 2 hours 15 minutes  Paper 2: 2 hours 15 minutes	Pen and Paper	[4 Express] All topics taught in Sec 3 & Sec 4  [5 Normal (Academic)] All topics taught in Sec 3 to Sec 5
<b>Principles of Accounts</b>	Paper 1 Answer three to four compulsory questions. Paper 2 Answer four compulsory questions. One question requires the preparation of financial statements (20 marks) and one scenario-based question (7 marks)	Paper 1: 1 hour  Paper 2: 2 hours	Pen and Paper	[4 Express] All topics taught in Sec 3 & Sec 4  [5 Normal (Academic)] All topics taught in Sec 3 to Sec 5
<b>Combined Science (Phy)</b>	Paper 1 (20 m MCQ) Paper 2 (65 m Structured) Paper 5 (15 m Practical)	Paper 1: 1 hr (with sc chem) Paper 2: 1h 15min Paper 5: 1h 30 min (with sc chem)	Pen and Paper	1) Physical Quantities, Units and Measurements 2) Kinematics 3) Force and Pressure 4) Dynamics 5) Turning Effects of Forces 6) Energy 7) Kinetic Particle Model of Matter 8) Thermal Processes

				<ul style="list-style-type: none"> <li>9) Wave Property</li> <li>10) Sound</li> <li>11) EM Waves</li> <li>12) Light</li> <li>13) Elec Charge, Current Elec</li> <li>14) DC Circuit</li> <li>15) Practical Electricity</li> <li>16) Magnetism &amp; Electromagnetic</li> <li>17) Radioactivity</li> </ul>
<b>Combined Science (Chem)</b>	<p>Paper 1 MCQ [40 marks] (Chem = 20 marks; Phy/Bio = 20 marks)</p> <p>Paper 3 Structured &amp; Free Response [65 marks] (Section A = 55 marks; Section B = 10 marks)</p> <p>Paper 5 Practical [30 marks] (Chem = 15 marks; Phy/Bio = 15 marks)</p>	<p>Paper 1: 1 hr (with sc Phy/Bio)</p> <p>Paper 2: 1h 15min</p> <p>Paper 5: 1h 30 min (with sc Phy/Bio)</p>	<p>Paper 1 &amp; 3: Pen &amp; Paper</p> <p>Paper 5: Practical</p>	<ul style="list-style-type: none"> <li>Chapter 1: Experimental Chemistry</li> <li>Chapter 2: Kinetic Particle Theory</li> <li>Chapter 3: Atomic Structure</li> <li>Chapter 4: Chemical Bonding</li> <li>Chapter 5: Structure and Properties of Materials</li> <li>Chapter 6: Chemical Formulae and Equations</li> <li>Chapter 7: Mole Concept and Stoichiometry</li> <li>Chapter 8: Acids and Bases</li> <li>Chapter 9: Qualitative Analysis</li> <li>Chapter 10: Oxidation and Reduction</li> <li>Chapter 11: The Periodic Table</li> <li>Chapter 12: The Reactivity Series</li> <li>Chapter 13: Chemical Energetics</li> <li>Chapter 14: Rate of Reactions</li> <li>Chapter 15: Fuels and Crude Oil</li> <li>Chapter 16: Hydrocarbons</li> <li>Chapter 17: Alcohols and Carboxylic Acids</li> <li>Chapter 18: Polymers</li> <li>Chapter 19: Maintaining Air Quality</li> </ul>
<b>Combined Science (Bio)</b>	<p>Paper 1 (20m)</p> <p>Paper 4 (A: 55m, B: 10m {2 choose 1})</p> <p>Paper 5 (15m)</p>	<p>Paper 1: 1 hr (with sc chem)</p> <p>Paper 4: 1h 15min</p> <p>Paper 5: 1h 30 min (with sc chem)</p>	<p>Pen and Paper</p>	<ul style="list-style-type: none"> <li>Chapter 1: Cell structure and organisation</li> <li>Chapter 2: Movement of substances</li> <li>Chapter 3: Biological Molecules</li> <li>Chapter 4: Enzymes</li> <li>Chapter 5: Nutrition in Humans</li> </ul>

				<p>Chapter 6: Transport in Humans</p> <p>Chapter 7: Respiration in Humans</p> <p>Chapter 8: Infectious Diseases in Humans</p> <p>Chapter 9: Nutrition and Transport in Flowering Plants</p> <p>Chapter 10: Organisms and Their Environment</p> <p>Chapter 11: Molecular Genetics</p> <p>Chapter 12: Reproduction in Humans</p> <p>Chapter 13: Inheritance</p>
<b>Physics</b>	<p>P1 (MCQ) - 40m</p> <p>P2 (Structured Q) - 80m</p> <p>P3 (Practical) - 40m</p>	<p>Paper 1: 1 hour</p> <p>Paper 2: 1 hour 45 minutes</p> <p>Paper 3: 1 hour 50 minutes</p>	Pen and Paper	<p>Chapters 1 to 22 + practical</p> <ol style="list-style-type: none"> <li>1. Physical Quantities, Units and Measurements</li> <li>2. Kinematics</li> <li>3. Dynamics: Mass &amp; Weight</li> <li>4. Dynamics: Forces</li> <li>5. Turning Effects of Forces</li> <li>6. Pressure</li> <li>7. Energy</li> <li>8. Kinetic Particle Model of Matter</li> <li>9. Thermal Processes</li> <li>10 Thermal Properties of Matter</li> <li>11 General Wave Properties I: Introduction</li> <li>12 General Wave Properties II: Sound</li> <li>13 EM Waves</li> <li>14 Light</li> <li>15 Static Electricity</li> <li>16 Current of Electricity</li> <li>17 D.C. Circuits</li> <li>18 Practical Electricity</li> <li>19. Magnetism</li> <li>20. Electromagnetism</li> <li>21. Electromagnetic Induction</li> <li>22. Radioactivity</li> </ol>
<b>Chemistry</b>	<p>Paper 1 MCQ [40 marks]</p>	<p>Paper 1: 1 hour</p>	<p>Paper 1 &amp; 2: Pen &amp; Paper</p>	<p>Chapter 1: Experimental Chemistry</p> <p>Chapter 2: Kinetic Particle Theory</p>

	<p>(40 MCQ)  Paper 2  Structured &amp; Free Response  [80 marks]  (Section A = 70 marks;  Section B = 10 marks)  Paper 3  Practical [40 marks]  (PDO + MMO + ACE = 34  marks; P = 6 marks)</p>	<p>Paper 2:  1 hour 45 minutes   Paper 3:  1 hour 50 minutes</p>	<p>Paper 3:  Practical</p>	<p>Chapter 3: Atomic Structure  Chapter 4: Chemical Bonding  Chapter 5: Structure and Properties of  Materials  Chapter 6: Chemical Formulae and  Equations  Chapter 7: Mole Concept and  Stoichiometry  Chapter 8: Acids and Bases  Chapter 9: Salts  Chapter 10: Ammonia  Chapter 11: Qualitative Analysis  Chapter 12: Oxidation and Reduction  Chapter 13: Electrochemistry  Chapter 14: The Periodic Table  Chapter 15: The Reactivity Series  Chapter 16: Chemical Energetics  Chapter 17: Rate of Reactions  Chapter 18: Fuels and Crude Oil  Chapter 19: Hydrocarbons  Chapter 20: Alcohols, Carboxylic Acids  and Esters  Chapter 21: Polymers  Chapter 22: Maintaining Air Quality</p>
<b>Biology</b>	<p>P1 (MCQ) - 40m  P2 (Structured) - 80m  P3 (Practical) - 40m</p>	<p>Paper 1:  1 hour   Paper 2:  1 hour 45 minutes   Paper 3:  1 hour 50 minutes</p>	<p>Pen and Paper</p>	<p>Ch 1. Cell Structure and Organisation  Ch 2. Movement of substances  Ch 3. Biological molecules  Ch 4. Enzymes  Ch 5. Nutrition in Humans  Ch 6. Transport in Humans  Ch 7. Respiration in Humans  Ch 8. Excretion in Humans  Ch 9. Homeostasis and Hormonal Control  Ch 10. The Nervous System and the Eye  Ch 11. Infectious Diseases in Humans  Ch 12. Nutrition and Transport in  Flowering Plants</p>

				Ch 13. Organisms and Their Environment Ch 14. Molecular Genetics Ch 15. Modes of Reproduction Ch 16. Reproduction in Plants Ch 17. Reproduction in Humans Ch 18. Inheritance
<b>Higher Chinese</b>	Paper 1: Email and Essay writing Paper 2: Comprehension and Language Use Paper 3: Oral	Paper 1: 2 hours Paper 2: 1 hour 45 minutes  Paper 3: Oral (20 minutes)	Pen and paper	All skills taught from Secondary 1 to 4
<b>History (2174)</b>	P1&P2: SBCS - 30m Essay - 20m	Paper 1: 1hour 50 minutes  Paper 2: 1hour 50 minutes	Hybrid: Hardcopy QP / e-Assessment	P1: Sec 3 Topics P2: Sec 4 Topics
<b>Humanities (Hist)</b>	Section A [30marks] - SBQ Section B [20marks] - SEQ	1hour 50 minutes	Pen and Paper	Chap 1 - 5
<b>Humanities (Geo)</b>	Structured questions	1hour 45 minutes	Pen and Paper	Geography in Everyday Life & Tectonics
<b>Social Studies</b>	Section A [35marks] - SBQ Section B [15marks] - SRQ	1hour 45 minutes	Pen and Paper	All chapters
<b>Art</b>	Paper 1: Visual Response	Paper 1: 2 hours 15minutes	Pen & Paper	Refer to the briefing instructions
<b>Music</b>	Music Studies, Coursework and Performance (P1, P2 and P3)	Paper 1: 1hour 30minutes  Paper 2: 5 hours  Paper 3: 30 minutes per student	Paper 1: Pen & Paper Paper 2: Creating Paper 3: Performing	Western Classical Tradition Jazz Popular Music Asian Music

<b>Design &amp; Technology</b>	Structured Questions Approved scientific calculators allowed	2 hours  Coursework internal school deadline - 20 July	Pen and paper Coursework components	All topics (Structure/ Mechanism / Electronics/ Design/ Technical skills)
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