

**Bartley Secondary School**  
**End-of-Year Exam Component/Topics 2024**  
**Secondary Three Express**

<b>SUBJECT</b>	<b>COMPONENT/TOPIC</b>
<b>English</b>	Paper 1: Section A: Editing Section B: Situational Writing Section C: Continuous Writing  Paper 2: Comprehension and Summary  Paper 3: Listening Comprehension
<b>Mathematics</b>	Sec 3E Textbook Chapter 1 Quadratic Equations and Functions Chapter 2 Linear Inequalities Chapter 3 Indices Chapter 4 Coordinate Geometry Chapter 5 Functions and Graphs Chapter 6 Congruence and Similarity Chapter 7 Further Trigonometry Chapter 8 : Application of Trigonometry  Lower Secondary Topics Numbers, Factors and Multiples Ratio, rate & Percentages Algebra Number Pattern
<b>A Math</b>	Textbook A Chapter 1 Quadratic Functions Chapter 2 Equations and Inequalities Chapter 3 Surds Chapter 4 Polynomials and Partial Fractions Chapter 5 Exponential and Logarithmic Functions Chapter 6 Binomial Theorem Chapter 7 Coordinate Geometry Chapter 8 Circles Chapter 9 Applications of Straight Line Graphs Chapter 10 Trigonometric Functions Chapter 11.1 to 11.2 Trigonometric Identities and Equations

SUBJECT	COMPONENT/TOPIC
<b>Physics</b>	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Force and Pressure 4. Dynamics 5. Turning Effect of Forces 6. Energy 7. Kinetic Particle Model of Matter 8. Thermal Processes 9. Thermal Properties of Matter 10. General Wave Properties (sound not tested)
<b>Chemistry</b>	Chapter 1: Experimental Chemistry Chapter 2: Kinetic Particle Theory 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 11: Qualitative Analysis Chapter 14: The Periodic Table Chapter 15: The Reactivity Series
<b>Biology</b>	1. Cell Structure and Organisation 2. Movement of Substances 3. Biological Molecules 4. Nutrition in Humans 5. Transport in Humans 6. Respiration in Humans 9. Infectious Diseases in Humans 10. Nutrition and Transport in Flowering Plants
<b>Science (Physics)</b>	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Force and Pressure 4. Dynamics 5. Turning Effect of Forces 6. Energy 7. Kinetic Particle Model of Matter 8. Thermal Processes 9. General Wave Properties (sound not tested)
<b>Science (Chemistry)</b>	Chapter 1 - Experimental Chemistry Chapter 2 - Kinetic Particle Theory Chapter 3 - Atomic Structure Chapter 4 - Chemical Bonding Chapter 5 - Structure and Properties of Materials Chapter 6 - Chemical Formulae and Equations Chapter 8 - Acids and Bases Chapter 11 - The Periodic Table

SUBJECT	COMPONENT/TOPIC		
<b>Science (Biology)</b>	Chapter 1: Cell Structure and Organisation Chapter 2: Movement of Substances Chapter 3: Biological Molecules Chapter 4: Nutrition in Humans Chapter 8: Nutrition and Transport in Flowering Plants Chapter 5: Transport in Humans Chapter 6: Respiration in Humans (EXCLUDING aerobic/anaerobic respiration and smoking)		
<b>Higher Chinese</b>	试卷一： 1. 电邮(二选一) 2. 作文(三选一)	试卷二： 1. 综合填空 2. 词语替换 3. 阅读理解一 4. 阅读理解二  字词: 1A - 4B 快捷字词 技能: 1A - 4B 快捷技能	
<b>Chinese Language</b>	试卷一： 1. 电邮(二选一) 2. 作文(三选一)	试卷二： 1. 综合填空 2. 词语替换 3. 阅读理解一 4. 阅读理解二  字词: 单元五 技能: 1A - 3B 技能	试卷三： 1. 听力考试
<b>Chinese B (CLB)</b>	试卷一： <b>e-Written</b> 电子邮件和看图作文(二选一)	试卷二： <b>e-Written</b> 1. 语文应用 2. 阅读理解一 3. 阅读理解二	试卷三： 1. 听力考试
<b>Malay Language</b>	<b>Paper 1</b> A: Penulisan Fungsional B: Penulisan Karangan	<b>Paper 2</b> A: Penggunaan Bahasa B: Kefahaman Objektif C: Kefahaman Subjektif	<b>Paper 3</b> Kefahaman Mendengar
<b>Tamil Language</b>	<b>தாள் 1</b> மின்னஞ்சல் கட்டுரை / கதை	<b>தாள் 2</b> A1. மரபுத்தொடர் / இணைமொழி A2. முன்னுணர்வுக் கருத்தறிதல் A3. தெரிவுவிடைக் கருத்தறிதல் B4. பிழை திருத்தம் C5. சுயவிடைக் கருத்தறிதல் / சொற்பொருள்	<b>தாள் 3</b> கேட்டல் கருத்தறிதல்

SUBJECT	COMPONENT/TOPIC
<b>Geography</b>	GIEL: full cluster Tourism: full cluster Climate: Topic 1
<b>Social Studies</b>	<p><b>Section A : Issue 1 Citizenship &amp; Governance</b> SBQ : 5 questions Making inference: message, partiality and purpose Comparing sources Evaluating sources</p> <p><b>Section B: Living in a Diverse Society</b> SRQ : 2 questions 6 &amp; 7 Issue 2 Chaps 5 and 6</p>
<b>Elective Geography</b>	GIEL: full cluster Tectonics: Topics 1 & 2
<b>Elective History</b>	<p><b>Section A: SBQ</b> Skills: Inference, purpose, comparison, evaluation</p> <p><b>Section B: SEQ</b> Topic: Impacts Hitler's Rule Chapter 1, chapter 3, chapter 4</p>
<b>Elective Literature</b>	Section A: Set Text (The Chrysalids Chapters 1 - 7) Choice between Essay and Passage-based Question Section B: Unseen Poetry - Choice between Local and Global poem
<b>D&amp;T</b>	<p>1.Design question 2.Electronics 3.Mechanism 4.Structures</p> <p>Coursework component: 1. Journal 2. Mock up 3. Prototype</p>
<b>NFS</b>	<p>All Topics except Chapter 10 - Sustainable Food Consumption Chapter 15 - Food Safety Chapter 16 - Convenience Foods</p> <p>Coursework component: - Research - Decision making - Planning - Execution Evaluation</p>

SUBJECT	COMPONENT/TOPIC
<b>POA</b>	Chapter 1 Introduction to Accounting Chapter 2 Accounting Information System Chapter 3 Elements of Financial Statements and the Accounting Equation Chapter 4 Double-entry Recording Chapter 5 Trial Balance and Financial Statements Chapter 6 Revenue and Other Income Chapter 7 Cost of Sales and Other Expenses Chapter 8 Cash Chapter 9 Inventories Chapter 12 Trade Payables Chapter 14 Equities (Financial Statements with Adjustments only)
<b>Art</b>	Paper 2: Drawing and Painting Choose and respond to 1 out of 6 themes. Submission requirements: An A3 final artwork accompanied by 5 sheets of A3 preparatory studies.
<p><b>Please note that</b></p> <ul style="list-style-type: none"> <li>Absence from Examination must be supported by a valid Medical Certificate, otherwise a zero mark would be awarded for the paper that the student has missed.</li> </ul>	

**Bartley Secondary School**  
**End-of-Year Exam Component/Topics 2024**  
**Secondary Three Normal (Academic)**

<b>SUBJECT</b>	<b>COMPONENT/TOPIC</b>
<b>English</b>	Paper 1: Section A: Editing Section B: Situational Writing Section C: Continuous Writing  Paper 2: Comprehension and Summary  Paper 3: Listening Comprehension
<b>Mathematics</b>	Sec 3N(A) Textbook Chapter 1 Algebraic Manipulation Chapter 2 Quadratic Equations Chapter 3 Graphs of Quadratic Functions Chapter 4 Indices Chapter 5 Congruence and Similarity Chapter 6 Coordinate Geometry Chapter 7 Functions and Graphs Chapter 8 Trigonometric Ratios Chapter 9 Further Trigonometry  Lower Secondary Topics Numbers Factors and Multiples Ratio, Rate & Percentages Number Pattern Stem & Leaf Diagram
<b>Mathematics (OOS)</b>	Sec 3E Textbook Chapter 1 Quadratic Equations and Functions Chapter 2 Linear Inequalities Chapter 3 Indices Chapter 4 Coordinate Geometry Chapter 5 Functions and Graphs Chapter 6 Congruence and Similarity Chapter 7 Further Trigonometry Chapter 8 : Application of Trigonometry  Lower Secondary Topics Numbers, Factors and Multiples Ratio, rate & Percentages Algebra Number Patterns

SUBJECT	COMPONENT/TOPIC
<b>Science (Physics)</b>	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Force and Pressure 4. Dynamics 6. Energy 7. Kinetic Particle Model of Matter 8. Thermal Processes
<b>Science (Physics) OOS</b>	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Force and Pressure 4. Dynamics 5. Turning Effect of Forces 6. Energy 7. Kinetic Particle Model of Matter 8. Thermal Processes 9. General Wave Properties (sound not tested)
<b>Science (Chemistry)</b>	Chapter 1 - Experimental Chemistry Chapter 2 - Kinetic Particle Theory 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: Calculation of $A_r$ and $M_r$ ; (Mole calculation & stoichiometry excluded) Chapter 11 - The Periodic Table Chapter 12 - The Reactivity Series
<b>Science (Chemistry) OOS</b>	Chapter 1 - Experimental Chemistry Chapter 2 - Kinetic Particle Theory Chapter 3 - Atomic Structure Chapter 4 - Chemical Bonding Chapter 5 - Structure and Properties of Materials Chapter 6 - Chemical Formulae and Equations Chapter 8 - Acids and Bases Chapter 11 - The Periodic Table
<b>Science (Biology)</b>	Chapter 1: Cell Structure and Organisation Chapter 2: Movement of Substances Chapter 3: Biological Molecules (including Enzymes) Chapter 4: Nutrition in Humans Chapter 8: Nutrition in Flowering Plants (including leaf structure)

SUBJECT	COMPONENT/TOPIC		
<b>Science (Biology) OOS</b>	Chapter 1: Cell Structure and Organisation Chapter 2: Movement of Substances Chapter 3: Biological Molecules Chapter 4: Nutrition in Humans Chapter 8: Nutrition and Transport in Flowering Plants Chapter 5: Transport in Humans Chapter 6: Respiration in Humans (EXCLUDING aerobic/anaerobic respiration and smoking)		
<b>Chinese Language (Normal Academic)</b>	试卷一： 1. 电邮(二选一) 2. 作文(三选一)	试卷二： <b>e-Written</b> 1. 综合填空 2. 阅读理解一 3. 阅读理解二  技能：1A - 3B 技能	试卷三： 1. 听力考试
<b>Chinese B (CLB)</b>	试卷一： <b>e-Written</b> 电子邮件和看图作文 (二选一)	试卷二： <b>e-Written</b> 1. 语文应用 2. 阅读理解一 3. 阅读理解二	试卷三： 1. 听力考试
<b>Malay Language</b>	<b>Paper 1</b> A: Penulisan Fungsional B: Penulisan Karangan	<b>Paper 2 - e-Written</b> A: Penggunaan Bahasa B: Kefahaman Objektif C: Kefahaman Subjektif	<b>Paper 3</b> Kefahaman Mendengar
<b>Malay B (MLB)</b>	<b>Pape 1 - e-Written</b> 1. Penulisan E-mel 2. Penulisan Karangan Bergambar	<b>Paper 2 - e-Written</b> A: Melengkapkan Teks B: Kefahaman 1 C: Kefahaman 2	<b>Paper 3</b> Kefahaman Mendengar
<b>Tamil Language</b>	<b>தாள் 1-</b> மின்னஞ்சல் கட்டுரை / கதை	<b>தாள் 2 - e-Written</b> A1. மரபுத்தொடர் / இணைமொழி A2. முன்னுணர்வுக் கருத்தறிதல் A3. தெரிவுவிடைக் கருத்தறிதல் B4. பிழை திருத்தம் C5. சுயவிடைக் கருத்தறிதல் / சொற்பொருள்	<b>தாள் 3</b> கேட்டல் கருத்தறிதல்
<b>Social Studies</b>	<b>Section A : Issue 1 Citizenship &amp; Governance</b> SBQ : 5 questions Making inference: message, partiality and purpose Comparing sources Evaluating sources		



SUBJECT	COMPONENT/TOPIC
	<p><b>Section B: Living in a Diverse Society</b>  SRQ : 2 questions 6 &amp; 7  Issue 2 Chaps 5 and 6</p>
<b>Elective Geography</b>	GIEL: full cluster Tectonics: Topic 1.1 and 1.4
<b>Elective History</b>	<p><b>Section A: SBQ</b>  Skills: Inference, purpose, comparison, evaluation</p> <p><b>Section B: SEQ</b>  Topic: Impacts Hitler's Rule  Chapter 1, chapter 3, chapter 4</p>
<b>D&amp;T</b>	1.Design question 2.Electronics 3.Mechanism  Coursework component: 1. Journal 2. Mock up 3. Prototype
<b>NFS</b>	All Topics except Chapter 10 - Sustainable Food Consumption
<b>POA</b>	Chapter 1 Introduction to Accounting Chapter 2 Accounting Information System Chapter 3 Elements of Financial Statements and the Accounting Equation Chapter 4 Double-entry Recording Chapter 5 Trial Balance and Financial Statements Chapter 6 Revenue and Other Income Chapter 7 Cost of Sales and Other Expenses Chapter 8 Cash Chapter 9 Inventories Chapter 14 Equities (Financial Statements with Adjustments only)
<b>Art</b>	Paper 2: Drawing and Painting Choose and respond to 1 out of 6 themes. Submission requirements: An A3 final artwork accompanied by 5 sheets of A3 preparatory studies.
<p><b>Please note that</b></p> <ul style="list-style-type: none"> <li>Absence from Examination must be supported by a valid Medical Certificate, otherwise a zero mark would be awarded for the paper that the student has missed.</li> </ul>	

**Bartley Secondary School**  
**End-of-Year Exam Component/Topics 2024**  
**Secondary Three Normal (Technical)**

SUBJECT	COMPONENT/TOPIC		
<b>English</b>	Paper 1: <b>e-Written</b> Section A: Editing Section B: Situational Writing Section C: Continuous Writing  Paper 2: Language Use and Comprehension  Paper 3: Listening Comprehension		
<b>Mathematics</b>	Sec 3 Textbook Chapter 1 Indices and standard form Chapter 2 Maps and Scale Chapter 3 Algebraic Expansion, Fractions, and Expression for nth Term of a number sequence Chapter 4 Factorisation and Formulae Chapter 5 Arc Length and Sector Areas Chapter 6 Pyramid, Cone and Spheres Chapter 7: Cumulative Frequency Chapter 8: Graphs of linear equations  Lower Secondary Topics <ul style="list-style-type: none"> <li>● Numbers</li> <li>● Ratio, rate &amp; Percentages</li> <li>● Rate and speed</li> <li>● Triangles and Pythagoras' Theorem</li> <li>● Cylinders</li> <li>● Statistics</li> <li>● Money</li> </ul>		
<b>Science</b>	Chapter 1: Energy Chapter 2: Electricity Chapter 3: Waves Chapter 4: Effects of Force Chapter 6: Sources of Food Chapter 7: Food Chemistry		
<b>Basic Chinese</b>	试卷一: <b>e-Written</b> 网络贴文	试卷二: <b>e-Written</b> 1. 语文应用 2. 阅读理解一 3. 阅读理解二	试卷三: 1. 口试考试(T3已进行) 2. 听力考试
<b>Basic Malay</b>	<u>Paper 1</u> - <b>e-Written</b> Penulisan Fungsional	<u>Paper 2</u> - <b>e-Written</b> A: Melengkapkan Teks B: Kefahaman 1 C: Kefahaman 2	<u>Paper 3</u> 1. Lisan (T3W8) 2. Kefahaman Mendengar

SUBJECT	COMPONENT/TOPIC		
<b>Basic Tamil</b>	<b>தாள் 1 e-Written</b> நடைமுறை சார்ந்த படைப்பு	<b>தாள் 2 e-Written</b> A1. மொழிப் பயன்பாடு-1 A2. மொழிப் பயன்பாடு-2 B3. மரபுத்தொடர் / இணைமொழி C4. கருத்து விளக்கப்படக் கருத்தறிதல் D5. வாசிப்புக் கருத்தறிதல்	<b>தாள் 3</b> 1.கேட்டல் கருத்தறிதல் 2. வாய்மொழித் தேர்வு (T3W8)
<b>Computer Applications</b>	Paper 1 (Theory) - Computer Fundamentals, Document Processing, Media Elements, Animation and Game Making, Spreadsheet, Interactive Multimedia Communication.  Paper 2 (Practical) - Media Element (Inkscape), Document Processing (Word), Interactive Multimedia Communication (Powerpoint)  Paper 3 (Practical) - Media Element (Openshot), Spreadsheet (Excel), Animation and Game Making (Scratch)		
<b>Mobile Robotics</b>	Paper 1: <ul style="list-style-type: none"> <li>● Mobile Robots</li> <li>● Basic Electricity</li> <li>● Basic Electronics</li> <li>● Digital Electronics</li> <li>● Input and Output Devices</li> </ul> Paper 2: Set up a logic circuit on a breadboard.		
<b>NFS</b>	Written paper: All Topics tested  Coursework component: <ul style="list-style-type: none"> <li>- Background Study</li> <li>- Decision making</li> <li>- Planning</li> <li>- Execution</li> <li>Evaluation</li> </ul>		

SUBJECT	COMPONENT/TOPIC
<b>D&amp;T</b>	Sec 3NT written exam: 1.Design question 2.Electronics 3.Mechanism  Coursework component: 1. Journal 2. Mock up 3. Prototype
<b>Please note that</b> <ul style="list-style-type: none"><li>• Absence from Examination must be supported by a valid Medical Certificate, otherwise a zero mark would be awarded for the paper that the student has missed.</li></ul>	