## Bartley Secondary School End-of-Year Exam Component/Topics 2023 Secondary Three Normal (Technical)

SUBJECT	COMPONENT/TOPIC
English	Paper 1: Section A: Editing Section B: Situational Writing Section C: Continuous Writing  Paper 2: Language Use and Comprehension  Paper 3: Listening Comprehension
Mathematics	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  Lower Secondary Topics  Numbers Ratio, rate & Percentages Rate and speed Triangles and Pythtagoras' Theorem Cylinders Statistics Money
Mathematics (OOS)	Sec 3 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 Polygon

SUBJECT	COMPONENT/TOPIC			
Science	1. Energy 2. Electricity 3. Wave 4. Effects of Force 5. Food Chemistry			
Science (Chem) OOS	1. Experimental Design 2. Methods of Purification and Analysis 3. Kinetic Particle Theory 4. Elements, Compounds and Mixtures 5. Atomic Structure 6. Chemical Bonding and Structure 7. Chemical Calculations (Ar, Mr, Mole Concept) 8. Patterns in the Periodic Table 9. Metals			
Science (Bio) OOS	1. Cell Structure 2. Movement of Substances 3. Biological Molecules 4. Nutrition in Humans 5. Nutrition and Transport in Plants			
Basic Chinese	试卷一(e-SBA) 1. 实用文 2. 语文应用 3. 阅读理解一 4. 阅读理解二	试卷二 ● 口试 (completed in T3)	试卷三 ● 听力	
Basic Malay	Kertas 1 (JATI, e-SBA) • Part 1 – Penulisan Fungsional • Part 2 - Bahasa/Kefahaman	Kertas 2  ■ Lisan (completed in T3)	Kertas 3  • Kefahaman Mendengar	
Basic Tamil	தாள் 1:- (மின்வழி)  பகுதி 1:- மின்னஞ்சல் / குறுந்தகவல்  பகுதி 2:- கருத்தறிதல் விளம்பரம் கதைப்பனுவல் செய்திப்பனுவல்	தாள் 2:- • வாசிப்பு • உரையாடல் (completed in T3)	தாள் 3:- • கேட்டல் கருத்தறிதல்	
Computer Applications	Paper 1:			

SUBJECT	COMPONENT/TOPIC		
	<ul> <li>Multimedia Communication (MS Powerpoint),</li> <li>Spreadsheet (MS Excel),</li> <li>Animation and Game Making (Scratch)</li> <li>Paper 2 (Practical): <ul> <li>Media Elements (Inkscape),</li> <li>Document Processing (MS Word),</li> <li>Multimedia Communication (MS Powerpoint)</li> </ul> </li> <li>Paper 3 (Practical): <ul> <li>Media Elements (Openshot),</li> <li>Spreadsheet (MS Excel),</li> <li>Animation and Game Making (Scratch)</li> </ul> </li> </ul>		
Mobile Robotics	Paper 1:		
NFS	All Topics tested		
D&T	Chapter 2: Formulating your Design Brief and Specifications  Chapter 3: Generating and Developing Your Ideas  Chapter 4: Communication your Proposed Design Solution  Chapter 6:Material  Chapter 9:Electronic  Chapter 10:Mechanism		