

**MERIDIAN SECONDARY SCHOOL
END OF YEAR FORMAT AND TOPICS
SECONDARY 3 NORMAL TECHNICAL**

Subject	Format	Topics to be tested
English (NT)	<p>Paper 1: Writing Total Marks: 70 Duration: 1h 20min</p> <p>Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 20min</p> <p>Paper 3: Listening Total Marks: 20 Duration: About 45min</p>	<p><u>Paper 1</u> Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks)</p> <p><u>Paper 2</u> Part 1: Modified Cloze I (10 marks) Part 2: Modified Cloze II (10 marks) Part 3: Comprehension 1 & Comprehension 2 (40 marks)</p>
English (NA)	<p>Paper 1: Writing Total Marks: 70 Duration: 1h 50 min</p> <p>Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 50min</p> <p>Paper 3: Listening Total Marks: 30 Duration: About 45min</p>	<p>Paper 1 Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks)</p> <p>Paper 2 Section A: Visual Text (5m) Section B: Narrative Text (20m) Section C: Non-narrative Text (25m)</p>
Mother Tongue	<p>ML: P1: 30 min (10 marks) P2: 40 min (25 marks) P3: 30 min (20 marks) CL: P1: 30 min (10 marks) P2: 40 min (25 marks) P3: 30 min (20 marks)</p>	<p>Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension Paper 3: Listening Comprehension</p>
Mathematics (NT)	<p>Paper 1 1 hour 30 minutes 50 marks</p> <p>Paper 2 1 hour 30 minutes 50 marks</p>	<p>Topics to be tested: Chapter 1 : Indices and Standard Form Chapter 2 : Map Scales Chapter 3 : Algebraic Expansion, Fractions and Expression for the nth Term of a Number Chapter 4 : Factorisation and Formulas Chapter 5 : Arc Length and Sectors Areas Chapter 6 : Pyramids, Cone and Sphere Chapter 7 : Graphs of Linear Equations Chapter 8 : Simultaneous Linear Equations</p> <p>Lower Sec Topics Numbers Angles Linear Equation in one Variable Proportion Cylinders Data Analysis - Bar chart and pie chart</p>

		Probability Rate and Speed
Mathematics (NA)	Paper 1: 1 h 30 mins, 60 marks (50%) Paper 2: 1 h 30 mins, 45 marks (50%)	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
Science (NT)	Paper 1: E-Examination (1 h 15 min) - 50 marks Paper 2: Written Paper (1h) - 50 marks	Topic 1: Energy Topic 2: Electricity Topic 3: Waves Topic 4: Effects of Forces Topic 5: Sources of Food Topic 8: Staying Healthy Topic 9: Digestion
Science (Phy/Chem) (NA)	Duration: Two sessions for 2 of the 3 Science components; a total of 1 hour 15 min for each session comprising Paper 1 & 2 (Phy), or 3 & 4 (Chem) Paper 1, 3: 20 Multiple Choice Questions (20 marks) Paper 2, 4: Structured / Free Response Questions (30 marks)	Ch 1 Experimental Techniques Ch 1 Methods of Purification and Analysis Ch 2 Kinetic Particle Theory Ch 3 Atomic Structure Ch 5 Elements, Compounds and Mixtures Ch 4 & 5 Chemical Bonding (Ionic & Covalent) Ch 7 Mole Concept Ch 8 Acids & Bases
CPA	Theory and Practical	Computer Fundamentals, Media Elements (Inkscape & Video Making), Spreadsheet, Game Making, Document Processing, Interactive Multimedia Communication
Art	Paper 1 - Art Task - 3 Hrs	Preparatory Studies + Final Artwork based on a given theme
D&T	Written Paper	Design, Mechanism, Electronics

EBS	Written Paper	Chapter 1: Introduction to Business Chapter 2: The 3 industries - Travel and Tourism, Retail and Hospitality industries Chapter 3: Introduction to Marketing Chapter 4: The Marketing Mix Chapter 5: Communication with the Customer Chapter 6: Customer Service
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**MERIDIAN SECONDARY SCHOOL
END OF YEAR FORMAT AND TOPICS
SECONDARY 3 NORMAL ACADEMIC**

Subject	Format	Topics to be tested
English (NA)	<p>Paper 1: Writing Total Marks: 70 Duration: 1h 50 min</p> <p>Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 50min</p> <p>Paper 3: Listening Total Marks: 30 Duration: About 45min</p>	<p>Paper 1 Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks)</p> <p>Paper 2 Section A: Visual Text (5m) Section B: Narrative Text (20m) Section C: Non-narrative Text (25m)</p>
English (O)	<p>Paper 1: Writing Total Marks: 70 Duration: 1h 50 min</p> <p>Paper 2: Language Use and Comprehension Total Marks: 50 Duration: 1h 50min</p> <p>Paper 3: Listening Total Marks: 30 Duration: About 45min</p>	<p>Paper 1 Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks)</p> <p>Paper 2 Section A: Visual Text (5m) Section B: Narrative Text (20m) Section C: Non-narrative Text (25m)</p>
Mother Tongue	<p>P1: 2 hr (60 marks) P2: 1hr 30 min (60 marks) P3: 30 min (20 marks)</p>	<p>Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension Paper 3: Listening Comprehension</p>
Mathematics (NA)	<p>Paper 1: 1 h 30 mins, 60 marks (50%) Paper 2: 1 h 30 mins, 45 marks (50%)</p>	<p>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</p>
Mathematics (O)	<p>Paper 1 1 hour 30 minutes 60 marks Paper 2 1 hour 30 minutes 60 marks</p>	<p>Topics to be tested:</p> <p>Chapter 1 : More About Quadratic Equations and Quadratic Functions Chapter 2 : More About Linear Inequalities Chapter 3 : Indices Chapter 4 : Coordinate Geometry Chapter 5 : Functions and Graphs (All except 5.5) Chapter 6 : Conditions of Congruence and Similarity Chapter 7 : Further Trigonometry Chapter 8 : Application of Trigonometry</p>

		<p>Chapter 9 : Arc Length and Sector Areas (Only 9.1 and 9.2 will be tested)</p> <p>Lower Secondary Content tested</p> <ul style="list-style-type: none"> • Factors and Multiples • Algebraic Manipulation and Algebraic Fractions • Expansion and Factorisation • Simple Linear Equations • Pythagoras' Theorem • Trigonometric Ratios • Mensuration • Mean, median, Mode
POA (NA)	<p>Paper 1 - 1 hour Paper 2 - 1 hour 30 mins</p>	<p>Topic 1: Introduction to Accounting Topic 2: Elements of the Financial Statements and the Accounting Equation Topic 3: Double-entry Recording Topic 4: Trial Balance Topic 5: Financial Statements Topic 6: Accounting Information System Topic 7: Cost of Sales and Other Expenses Topic 8: Revenue and Other Income Topic 9: Cash and bank reconciliation Topic 10: Inventories Topic 11: Trade payables Topic 12: Trade Receivables and Allowance for impairment Topic 13: Financial statements (with adjustments)</p>
Science (Phy/Chem) (NA)	<p>Duration: Two sessions for 2 of the 3 Science components; a total of 1 hour 15 min for each session comprising Paper 1 & 2 (Phy), or 3 & 4 (Chem) Paper 1, 3: 20 Multiple Choice Questions (20 marks) Paper 2, 4: Structured / Free Response Questions (30 marks)</p>	<p>Ch 1 Experimental Techniques Ch 1 Methods of Purification and Analysis Ch 2 Kinetic Particle Theory Ch 3 Atomic Structure Ch 5 Elements, Compounds and Mixtures Ch 4 & 5 Chemical Bonding (Ionic & Covalent) Ch 7 Mole Concept Ch 8 Acids & Bases</p>
Science (Phy/Chem) (O)	<p><u>Paper 1 (1 hour)</u> 20 Multiple Choice Questions (Chemistry) + 20 Multiple Choice Questions (Physics/Biology) <u>Paper 3 (1 hour 15 mins)</u> 8-10 Structured Questions; last question carry 10 marks - 55 marks 1 Free Response Question - 10 marks</p>	<ol style="list-style-type: none"> 1. Experimental Chemistry 2. Kinetic Particle Theory 3. Atomic Structure 4. Chemical Bonding 5. Structures and properties of materials 6. Chemical formulae and equations 7. Acids and Bases 8. The Periodic Table 9. The Reactivity Series

Social Studies (NA)	<p>Sect A: Source-based Case Study - 35 marks</p> <p>Sect B: Structured-Response Question - 15 marks</p> <p>Duration: 1 hour 45 minutes</p>	<p>Chapter 1 to 5 SBCS Skills: Inference, Comparison, Reliability & Evaluation/Assertion SRQ: SRQ 6 and 7</p>
Elective Geography (NA)	<p>Duration: 1 hour 15 mins Structured Response Questions:</p> <p>Sect A: Cluster 1: Geography in Everyday Life - 20 marks</p> <p>Sect B: Cluster 2: Climate (Topic 1.1 + 1.2 only) - 15 marks</p>	<p>Cluster: Everyday Life Topic 1: Thinking Geographically Topic 2: Sustainable Development Topic 3: Geographical Methods</p> <p>Cluster 2: Climate Topic 1.1 - Weather and Climate Topic 1.2 - Variations in air temperature across Earth's surface</p>
Elective History (NA)	<p>1h 50 mins</p> <p>Sect A: Source Based Question - 30 marks</p> <p>Sect B: Structured Essay Question - 20 marks (3 question choose 2)</p>	<p>Chapter 1, 2, 4 and 5 (3 is non examinable for NA)</p> <p>SBQ Skills: Inference, Comparison, Reliability & Evaluation</p>
Art	<p>Paper 2: Drawing and Painting (3hrs)</p>	<p>Paper 2: Preparatory Studies + Final Artwork based on chosen theme</p>
D&T (O)	<p>Written exam Total marks: 80, Duration 2 hrs</p>	<p>Design Mechanisms Electronics Structures</p>
NFS	<p>Written Paper Section A: 16 marks (Multiple Choice Questions) Section B: 40 marks (Short-Answer-Type Questions and Data-Response-Type Questions) Section C: 24 marks (Open-Ended Questions/Essay) Total: 80 Marks Duration: 1 hour 30 mins</p>	<p>Chap 1-9, 11-14</p>

**MERIDIAN SECONDARY SCHOOL
END OF YEAR FORMAT AND TOPICS
SECONDARY 3 EXPRESS**

Subject	Format	Topics to be tested
English (O)	<p>Paper 1: Writing Section A: Editing (10 marks) Section B: Situational Writing (30 marks) Section C: Continuous Writing (30 marks) Total Marks: 70; Duration: 1h 50 min</p> <p>Paper 2: Comprehension Section A: Visual Text Compre (5m) Section B: Narrative Compre (20m) Section C: Non-Narrative Compre (25m) Total Marks: 50; Duration: 1h 50 min</p> <p>Paper 3: Listening Section A: 3 parts (22 marks) Section B: 1 part (8 marks) Total Mark: 30; Duration: About 45 min</p>	<p>Paper 1 Section A: Edit grammatical errors in given text. Section B: Write a text of 250 - 350 words with visual stimulus provided. Section C: Write a text of 350 - 500 words on one of the four topics set.</p> <p>Paper 2 Section A: Answer questions to one visual and one short text Section B: Answer questions to a narrative passage Section C: Answer questions to a non-narrative passage and complete a summary of the passage.</p> <p>Paper 3 Section A: Listen to recordings twice and respond to the questions. Section B: Listen to a recording once to complete a graphic organiser.</p>
Mother Tongue	<p>ML/ CL: P1: 2 hr (60 marks) P2: 1hr 30 min (70 marks) P3: 30 min (20 marks)</p> <p>MLB/CLB: P1: 50 min (20 marks) P2: 1hr (30 marks) P3: 30 min (20 marks)</p> <p>HCL: P1: 2 hours (80 marks) P2: 1 hour 45 mins (80 marks)</p>	<p>ML and CL Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension Paper 3: Listening Comprehension</p> <p>MLB/CLB: P1: Functional Writing or Essay P2: Language Use and Comprehension P3: Listening Comprehension</p> <p>HCL Paper 1: Functional Writing and Essay Paper 2: Language Use and Comprehension</p>
Mathematics (O)	<p>Paper 1 1 hour 30 minutes 60 marks Paper 2 1 hour 30 minutes 60 marks</p>	<p>Chapter 1 : More About Quadratic Equations and Quadratic Functions Chapter 2 : More About Linear Inequalities Chapter 3 : Indices Chapter 4 : Coordinate Geometry Chapter 5 : Functions and Graphs (All except 5.5) Chapter 6 : Conditions of Congruence and Similarity Chapter 7 : Further Trigonometry</p>

		<p>Chapter 8 : Application of Trigonometry Chapter 9 : Arc Length and Sector Areas (Only 9.1 and 9.2 will be tested)</p> <p>Lower Secondary Content tested</p> <ul style="list-style-type: none"> • Factors and Multiples • Algebraic Manipulation and Algebraic Fractions • Expansion and Factorisation • Simple Linear Equations • Pythagoras' Theorem • Trigonometric Ratios • Mensuration • Mean, median, Mode
Additional Mathematics (O)	<p>One paper - 2 hour 15 mins</p> <p>10 – 13 questions of varying marks and lengths. Candidates are required to answer all questions. Total marks: 90</p>	<p>Chapter 1 - Quadratic Functions Chapter 2 - Equations and Inequalities Chapter 3 - Surds Chapter 4 - Polynomials and Partial Functions 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</p>
POA (O)	<p>Paper 1 - 1 hour Paper 2 - 1 hour 30 mins</p>	<p>Topic 1: Introduction to Accounting Topic 2: Elements of the Financial Statements and the Accounting Equation Topic 3: Double-entry Recording Topic 4: Trial Balance Topic 5: Financial Statements Topic 6: Accounting Information System Topic 7: Cost of Sales and Other Expenses Topic 8: Revenue and Other Income Topic 9: Cash and bank reconciliation Topic 10: Inventories Topic 11: Trade payables Topic 12: Trade Receivables and Allowance for impairment Topic 13: Long-term Borrowings Topic 14: Financial statements (with adjustments) Topic 15: Adjustments to income and expenses</p>
Science (Phy/Chem) (O)	<p><u>Paper 1 (1 hour)</u> 20 Multiple Choice Questions (Chemistry) + 20 Multiple Choice Questions (Physics/Biology) <u>Paper 3 (1 hour 15 mins)</u> 8-10 Structured Questions; last question carry 10 marks - 55 marks 1 Free Response Question - 10 marks</p>	<p>1. Experimental Chemistry 2. Kinetic Particle Theory 3. Atomic Structure 4. Chemical Bonding 5. Structures and properties of materials 6. Chemical formulae and equations 7. Acids and Bases 8. The Periodic Table 9. The Reactivity Series</p> <p>1. Physical Quantities, Units and Measurement 2. Kinematics 3. Force and Pressure 4. Dynamics (forces)</p>

		<p>5. Turning Effect of Force</p> <p>6. Energy</p> <p>7. Kinetic Particle Model of Matter</p> <p>8. Thermal Process</p> <p>9. General Wave Properties</p> <p>10. Sound</p> <p>11. Electromagnetic Spectrum</p>
Science (Bio) (O)	<p><u>Section A</u> 20 Multiple Choice Questions</p> <p><u>Section B</u> 8-10 Structured Questions; last question carry 10 marks - 55 marks 1 Free Response Question - 10 marks</p> <p>Duration: 1 hour 15 mins</p>	<p>Chapter 1 Cell Structure and Function</p> <p>Chapter 2 Movement of Substances</p> <p>Chapter 3 Biological Molecules</p> <p>Chapter 4 Enzymes</p> <p>Chapter 5 Nutrition in Humans</p> <p>Chapter 6 Transport in Humans</p> <p>Chapter 7 Respiration</p> <p>Chapter 8 Infectious Diseases in Humans</p>
Pure Chemistry (O)	<p>Paper 1: 30 MCQs (45 min) - 30 marks</p> <p>Paper 2: Structured Questions & Free Response Questions (1 h 30 min) - 70 marks</p>	<p>Chapter 1: Experimental Chemistry</p> <p>Chapter 2: Kinetic Particle Theory</p> <p>Chapter 3: Atomic Structure</p> <p>Chapter 4: Chemical Bonding</p> <p>Chapter 5: Structures and Properties of Materials</p> <p>Chapter 6: Chemical Formulae and Equations</p> <p>Chapter 8: Acids and Bases</p> <p>Chapter 9: Salts</p> <p>Chapter 10: Ammonia</p> <p>Chapter 11: Qualitative Analysis</p> <p>Chapter 7: Mole Concept and Stoichiometry</p> <p>Chapter 12: Oxidation and Reduction</p> <p>Chapter 14: The Periodic Table</p>
Pure Biology (O)	<p>Paper 1 30 Multiple Choice Questions</p> <p>Paper 2 Section A: Structured Questions - 50 marks Section B: Free Response Questions - 20 marks</p> <p>Duration: 1 hour</p>	<p>Chapter 1 Cell Structure and Organisation</p> <p>Chapter 2 Movement of Substances</p> <p>Chapter 3 Biological Molecules</p> <p>Chapter 4 Enzymes</p> <p>Chapter 5 Nutrition in Humans</p> <p>Chapter 6 Transport in Humans</p> <p>Chapter 7 Respiration in Humans</p> <p>Chapter 8 Excretion in Humans</p> <p>Chapter 9 Homeostatis and Hormonal Control</p>

Pure Physics (O)	Paper 1: 30 MCQs (45 min) - 30 marks Paper 2: Structured Questions & Free Response Questions (1 h 30 min) - 70 marks	1. Physical Quantities, Units and Measurement 2. Kinematics 3. Dynamics (mass and weight) 4. Dynamics (forces) 5. Turning Effect of Force 6. Pressure 7. Energy 8. Kinetic Particle Model of Matter 9. Thermal Process 10. Thermal Properties of Matter 11. General Wave Properties 13. Electromagnetic Spectrum
Social Studies (O)	Sect A: Source-based Case Study - 35 marks Sect B: Structured-Response Question - 15 marks Duration: 1 hour 45 minutes	Chapter 1 to 6 SBCS Skills: Inference, Comparison, Reliability & Evaluation/Assertion SRQ: SRQ 6 and 7
Elective Geography (O)	1hr 30 mins Sect A: Geography in Everyday Life - 25 marks Sect B: Climate, Topic 1 - 15 marks, inclusive of 1 Open-ended Question	Geography in Everyday Life Cluster: Topics 1 - 3 Climate Cluster: Topic 1
Geography (O)	1hr 45mins Sect A: Structured Response, including GI (20 marks) Sect B: Structured Response (15 marks) Sect C: Structured Response (15 marks)	- Geography in Everyday Life, Topic 1 - 3 - Tourism, Topic 1 - 3 - Climate, Topic 1 - 2.2
Elective History (O)	Duration: 1hr 50min Section A: Source-based Case Study (30 m) Section B: Essay Questions (20 m)	Chapter 1 to 5 SBCS Skills: Message, Comparison, Purpose, Utility, Evaluation Essays
History (O)	Duration: 1 hr 50 Min. Section A: Source-based Case Study (30 m) Section B: Essay Questions (20 m)	Chapters 1 - 8 SBCS Skills: Message, Comparison, Purpose, Utility, Evaluation Essays
Elective Literature (O)	Section A - 1 Essay from Chrysalids (25m) Section B - 1 Essay on Unseen Poetry (25m) 1h 40mins	The Chrysalids - Chapters 1 to 10. - Unseen poetry

Literature (O)	Paper 1: Questions from the Chrysalids (25m) Unseen Poetry (25m) Paper 2: Questions from The Crucible (50m) P2: 1hr 30mins	The Chrysalids: Chapters 1 to 10 The Crucible: Acts 1 & 2
Art (O)	Paper 2: Drawing and Painting (3hrs) or Paper 3: Study of Visual Arts (2hrs) Section A: Two structured questions Section B: Two structured comparison questions	Paper 2: Preparatory Studies + Final Artwork based on chosen theme Paper 3: Art as Narrative and Inspiration (all artists); Art as Expression and Identity (all artists except Wassily Kandinsky and Wu Guanzhong); Art as Communication and Design (Chuanh Thean Teng and Takashi Murakami)
D&T (O)	Written exam Total marks: 80, Duration 2 hrs	Design Mechanisms Electronics Structures
NFS (O)	Written exam. Duration: 2 hours (section A: MCQ 15m, section B: Short Answer Qn 55m, section C: 2 Essay Qns 30m. Total:100m)	Chap 1-9, 11-14