

**MERIDIAN SECONDARY SCHOOL  
END OF YEAR FORMAT AND TOPICS  
SECONDARY 3 G1**

Subject	Format	Topics to be tested
<b>Computer Applications (CPA)</b>	<p><b>Paper 1</b> Section A: Multiple Choice Question (20 marks) Section B: Structured Question (40 marks)</p> <p><b>Paper 2 e-Assessment</b> Task 1 Media elements (21 marks) Task 2 Document processing (28 marks) Task 3 Presentation (21 marks)</p> <p><b>Paper 3 e-Assessment</b> Task 1 Video making (14 marks) Task 2 Spreadsheet (28 marks) Task 3 Game making (28 marks)</p> <p><b>*e-exams for Paper 2 and 3</b></p>	<p>Module 1: Computer Fundamentals (CPF) Module 2: Media Elements (MEL) Module 3: Document Processing (DOP) Module 4: Spreadsheets (SST) Module 5: Interactive Multimedia Communication (IMC) Module 6: Animation and Game Making (AGM)</p>
<b>Design &amp; Technology</b>	<p>Paper 1: Written Answer All questions 4 Questions. The question will be design centric. Question 1 requires knowledge application of Design. Question 2 to Question 4 require knowledge application of Mechanisms and Electronics.</p>	<p>Design Mechanisms Electronics</p>
<b>Element of Business Skills</b>	<p>Written Paper</p>	<p>Chapter 1: Introduction to Business Chapter 2: Businesses in the Travel and Tourism, Hospitality and Retail Industries Chapter 3: Introduction to Marketing Chapter 4: The Marketing Mix Chapter 5: Communication with the Customer Chapter 6: Customer Service</p>
<b>English</b>	<p><b>Paper 1:</b> Editing, Situational Writing, Free Writing.</p> <p><b>Paper 2:</b> Vocab/Grammar Cloze, Comprehension</p> <p><b>Paper 3:</b> Listening Comprehension</p> <p><b>*e-exams for Paper 1</b></p>	<p><b>PAPER 1:</b> 70 marks Section A: Candidates edit 10 grammatical errors in a given text. Section B: Candidates write at least 180 words text. A stimulus text, which may include visuals, will be provided. Section C: Candidates write a text of at least 120 words on one of two topics set.</p> <p><b>PAPER 2:</b> 60 marks Section A: Language Use Part 1: Modified Cloze I Candidates complete a cloze passage testing vocabulary. Part 2: Modified Cloze II Candidates complete a cloze passage testing grammar. Section B: Reading Comprehension Part 3: Comprehension I Candidates answer questions on a narrative or a recount.</p>

		Part 4: Comprehension II Candidates answer questions on non-narrative texts, one of which includes visuals. <b>PAPER 3:</b> 20 marks Candidates complete a variety of listening tasks.
<b>Mathematics</b>	<b>Paper 1</b> 1 hour 50 minutes 50 marks  <b>Paper 2</b> 1 hour 50 minutes 50 marks	Chapter 1: Indices and standard form Chapter 2: Map Scales Chapter 3: Algebraic Expansion, Fractions and Expression for the nth term of a number sequence Chapter 4: Factorisation and formulae Chapter 5: Arc Length and Sector Area Chapter 6: Pyramids, Cylinders, Cones and Spheres Chapter 7: Cumulative Frequency Curves Chapter 8: Graphs of linear Equations Chapter 9: Simultaneous Equations  Lower Sec Topics: Numbers, Angles, Linear Equations, Proportion, Cylinders, Pythagoras Theorem, Pie Charts
<b>Mother Tongue</b>	<b>Paper 1:</b> Functional Writing  <b>Paper 2:</b> Grammar and Vocabulary, Reading Comprehension  <b>Paper 3:</b> Listening Comprehension  <i>*e-exams for Paper 1 and 2</i>	All grammar items and skills in writing & comprehension covered from Sec 1 to 3.
<b>Science</b>	<b>Paper 1</b> Section A: Multiple Choice Question, selected response question (40 marks) Section B: Short answer questions, structured questions (10 marks)  <b>Paper 2</b> Structured Questions (50 marks)  <i>*e-exams for Paper 1</i>	Chapter 1: Energy Chapter 2: Electricity Chapter 3: Wave Chapter 4: Effects of Forces Chapter 8 Staying Healthy Chapter 9: Digestion Chapter 10 Breathing Chapter: Blood Circulation

**MERIDIAN SECONDARY SCHOOL  
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SECONDARY 3 G2**

Subject	Format	Topics to be tested
<b>Art</b>	Paper 1: Written Section A - Visual Analysis Section B - Exploratory Sketching	Visual Analysis Exploratory Sketching
<b>Design &amp; Technology (G3)</b>	Paper 1: Written Answer All questions 4 Questions. The questions will be design centric. Question 1 requires knowledge application of Design. Question 2 to Question 4 requires knowledge application of Structures, Mechanisms and Electronics	Design Structures Mechanisms Electronics
<b>English</b>	<b>Paper 1</b> Section A: Editing Section B: Situational Writing Section C: Continuous Writing  <b>Paper 2</b> Section A: Visual text. Section B: Narrative Comprehension Section C: Non-narrative Comprehension and a summary writing task.  <b>Paper 3</b> Listening Comprehension	Skills covered from Sec 1 to 3.
<b>Humanities (Social Studies)</b>	Section A: Source-Based Case Study (35 marks) Section B: Structured-Response Questions (15 marks)  <b>*Paper is e-exams.</b>	Chapter 1: What does citizenship mean to me? Chapter 2: What are the functions and roles of government in working for the good of society? Chapter 3: How Do We Decide What is Good for Society? Chapter 4: How Can We Work Together for the Good of Society? Chapter 5: What are the Factors that Shape the Identities of People and Contribute to a Diverse Society?
<b>Humanities (Elective Geography)</b>	Structured Response Questions: Section A: Cluster 1: Geography in Everyday Life - 20 marks Section B: Cluster 2: Climate (Topic 1.1 + 1.2 only) - 15 marks	Cluster: Everyday Life Topic 1: Thinking Geographically Topic 2: Sustainable Development Topic 3: Geographical Methods  Cluster 2: Climate Topic 1.1 - Weather and Climate Topic 1.2 - Variations in air temperature across Earth's surface

<b>Humanities (Elective History)</b>	Section A: Source Based Qns (30m) Answer all questions. Section B: Structured Essay Qns (20m) Choose two out of three.	Chapter 1: Attempts to make and keep peace Chapter 2: Rise of Authoritarian Regimes - Case Study of Nazi Germany Chapter 4: Outbreak of WWII in Europe Chapter 5: Outbreak of WWII in Asia Pacific
<b>Mathematics</b>	<b>Paper 1:</b> 1 h 30 mins, 60 marks (50%) Answer ALL Questions. <b>Paper 2:</b> 1 h 30 mins, 45 marks (50%) Section A: Answer ALL Questions Section B: Answer 1 out of 2 Questions	Chapter 1: Algebraic Manipulation Chapter 2: Quadratic Equations Chapter 3: Graphs of Quadratic Functions Chapter 4: Indices Chapter 5: Congruence & Similarity Chapter 6: Coordinate Geometry Chapter 7: Unit 7.3 & 7.4) Gradient of Graphs Chapter 8: Trigonometric Ratios Chapter 9: Further Trigonometry  and Selected Lower Sec Topics.
<b>Mother Tongue</b>	<b>CL/ ML</b> <b>Paper 1:</b> Functional Writing + Essay Writing <b>Paper 2:</b> Grammar, Vocabulary, Comprehension <b>Paper 3:</b> Listening Comprehension  <b>*e-exams for Paper 1 and 2</b> <b>CL 'B' (G2 and G3)</b> <b>Paper 1:</b> Informal email or Picture Composition <b>Paper 2:</b> Comprehension (MCQs) <b>Paper 3:</b> Listening Comprehension  <b>*e-exams for Paper 1 2, and 3</b>	All grammar items and skills in writing & comprehension covered from Sec 1 to 3.
<b>Principles of Accounts (POA)</b>	<b>Paper 1:</b> Answer all questions (40%) <b>Paper 2:</b> Answer all questions with financial statements as the first question. (60%)	Topic 1: Introduction to accounting Topic 2: Elements of financial statements and the accounting equation (A, L, I, E and OE) Topic 3: Double entry 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)

<p><b>Science (Physics/ Chemistry)</b></p>	<p><b>Paper 1 and 2 (Science Physics)</b>  Paper 1 (MCQ): 20 marks  Paper 2 (Structured): 30 marks  - Section A: 22/30  - Section B: 8/30 (choose 1 out of 2 questions)</p> <p><b>Paper 3 and 4 (Science Chemistry)</b>  Paper 3 (MCQ): 20 marks  Paper 4 (Structured): 30 marks  - Section A: 22/30  - Section B: 8/30 (choose 1 out of 2 questions)</p>	<p><b>Science Physics</b>  Chapter 1: Physical Quantities, Units and Measurement  Chapter 2: Kinematics  Chapter 3: Forces and Pressure  Chapter 4: Dynamics  Chapter 5: Energy  Chapter 6: Kinetic Particle Model of Matters  Chapter 7: Thermal Processes  Chapter 8: General Waves Theory  Chapter 9: Electromagnetic Spectrum</p> <p><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 Formula and Equations  Chapter 8: Acids and Bases  Chapter 11: The Periodic Table</p>
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**MERIDIAN SECONDARY SCHOOL  
END OF YEAR FORMAT AND TOPICS  
SECONDARY 3 G3**

Subject	Format	Topics to be tested
<b>Additional Mathematics</b>	One paper - 2 hour 15 mins 10 – 13 questions of varying marks and lengths. Candidates are required to answer all questions. Total marks: 90	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
<b>Art</b>	Paper 1: Written Section A - Visual Analysis Section B - Exploratory Sketching	Visual Analysis Exploratory Sketching
<b>Biology</b>	<b>Paper 1:</b> 30 Multiple Choice Questions (30 marks) <b>Paper 2:</b> Structured Questions + 2 Free Response Questions (70 Marks)	Chapter 1: Cell Structure & Organisation Chapter 2: Movement of Substances Chapter 3: Biological Molecules Chapter 4: Enzymes Chapter 5: Nutrition in Humans Chapter 6: Transport in Humans Chapter 7: Respiration in Humans Chapter 8: Excretion in Humans Chapter 9: Excretion in Humans Chapter 10: Homeostasis and Hormonal Control
<b>Chemistry</b>	<b>Paper 1:</b> 30 Multiple Choice Questions (30 marks) <b>Paper 2:</b> Structured Questions + 2 Free Response Questions (70 Marks)	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 Formula and Equations Chapter 7: Mole Concept and Stoichiometry Chapter 8: Acids and Bases Chapter 9: Salts Chapter 10: Ammonia Chapter 14: The Periodic Table Chapter 15: The Reactivity Series
<b>D&amp;T</b>	Paper 1: Written Answer All questions 4 Questions. The questions will be design centric. Question 1 requires knowledge application of Design. Question 2 to Question 4 requires knowledge application of Structures, Mechanisms and Electronics	Design Structures Mechanisms Electronics

<b>English</b>	<p><b>Paper 1</b> Section A: Editing Section B: Situational Writing Section C: Continuous Writing</p> <p><b>Paper 2</b> Section A: Visual text. Section B: Narrative Comprehension Section C: Non-narrative Comprehension and a summary writing task.</p> <p><b>Paper 3</b> Listening</p>	Skills covered from Sec 1 to 3.
<b>Geography</b>	<p>Section A: Structured Response, including Fieldwork (20 marks) Section B: Structured Response (15 marks) Tourism Section C: Structured Response (15 marks) Climate <i>Includes 1 Open-ended Question from Sect B or C.</i></p>	<p>Geography in Everyday Life Cluster: Topics 1 - 3 Tourism: Topics 1 - 3 Climate: Topics 1 - 2.2</p>
<b>History</b>	<p>Section A: Source Based Questions (30m): Answer all questions Section B: Structured Essay Questions (20m): Choose two out of three</p>	All Chapters from Unit 1: The making of the 20th Century World 1870-1942
<b>Humanities (Elective Geography)</b>	<p>Section A: Geography in Everyday Life - 25 marks Section B: Climate, Topic 1 - 15 marks, inclusive of 1 Open-ended Question</p>	<p>Geography in Everyday Life Cluster: Topics 1 - 3 Climate Cluster: Topic 1</p>
<b>Humanities (Elective History)</b>	<p>Section A: Source Based Questions (30m): Answer all questions Section B: Structured Essay Questions (20m): Choose two out of three</p>	Chapters 1, 2, 3, 4 & 5
<b>Humanities (Elective Literature)</b>	<p>Section A: Answer 1 question out of 3 questions on Chrysalids Section B: Answer 1 question out of 2 questions (poetry)</p>	The Chrysalids Chapters 1-9
<b>Humanities (Social Studies)</b>	<p>Section A: Source-Based Case Study (35 marks) Section B: Structured-Response Questions (15 marks)</p>	<p>Chapter 1: What does citizenship mean to me? Chapter 2: What are the functions and roles of government in working for the good of society? Chapter 3: How Do We Decide What is Good for Society? Chapter 4: How Can We Work Together for the Good of Society? Chapter 5: What are the Factors that Shape the Identities of People and Contribute to a Diverse Society? Chapter 6: What are the Experiences and Effects of Living in a Diverse Society?</p>
<b>Mathematics</b>	<p><b>Paper 1:</b> 1 h 30 mins, 60 marks (50%) <b>Paper 2:</b> 1 h 30 mins, 60 marks (50%)</p>	<p>Chapter 1: More About Quadratic Equations, Chapter 2: Linear Inequalities Chapter 3: Indices Chapter 4: Coordinate Geometry Chapter 5: Functions and Graphs</p>

		<p>Chapter 6: Conditions Of Congruence and Similarity (up until 6.4)  Chapter 7: Trigonometry  Chapter 8: Applications Of Trigonometry  Chapter 9: Arc Lengths and Sector Areas (up until 9.2)</p> <p>Lower Secondary Content tested  Factors and Multiples  Algebraic Manipulation and Algebraic Fractions  Expansion and Factorisation  Simple Linear Equations  Pythagoras' Theorem  Trigonometric Ratios  Mensuration  Mean, median, Mode</p>
<b>Mother Tongue</b>	<p><b>CL/ ML</b>  <b>Paper 1:</b> Functional Writing + Essay Writing  <b>Paper 2:</b> Grammar, Vocabulary, Comprehension  <b>Paper 3:</b> Listening Comprehension</p> <p><i>*e-exams for Paper 1 and 2</i></p> <p><b>CL 'B' (G2 and G3)</b>  <b>Paper 1:</b> Informal email or Picture Composition  <b>Paper 2:</b> Comprehension (MCQs)  <b>Paper 3:</b> Listening Comprehension</p> <p><i>*e-exams for Paper 1 2, and 3</i></p> <p><b>Higher CL</b>  <b>Paper 1:</b> Composition and email writing  <b>Paper 2:</b> Comprehension (language, reading and writing)</p>	<p><b>CL/ ML/ CL 'B'</b>  All grammar items and skills in writing &amp; comprehension covered from Sec 1 to 3.</p> <p><b>Higher CL</b>  All grammar items and skills in writing &amp; comprehension covered from Sec 1 to 3. (Include expository/argumentative essay, editing, summary)</p>
<b>Physics</b>	<p><b>Paper 1:</b> 30 Multiple Choice Questions (30 marks)  <b>Paper 2:</b> Structured Questions + 2 Free Response Questions (70 Marks)</p>	<p>Chapter 1: Physical Quantities, Units &amp; Measurement  Chapter 2: Kinematics  Chapter 3: Dynamics  Chapter 4: Turning Effect of Forces  Chapter 5: Pressure  Chapter 6: Energy  Chapter 7: Kinetic Particle Model of Matter  Chapter 8: Thermal Processes  Chapter 9: Thermal Properties of Matter  Chapter 10: General Properties of Waves  Chapter 11: Electromagnetic Spectrum</p>
<b>Principles of Accounts (POA)</b>	<p><b>Paper 1:</b> Answer all questions (40%)  <b>Paper 2:</b> Answer all questions with financial statements as the first question. (60%)</p>	<p>Topic 1: Introduction to accounting  Topic 2: Elements of financial statements and the accounting equation (A, L, I, E and OE)  Topic 3: Double entry  Topic 4: Trial balance  Topic 5: Financial statements  Topic 6: Accounting information system  Topic 7: Cost of sales and other expenses</p>



		<p>Topic 8: Revenue and other income</p> <p>Topic 9: Cash and bank reconciliation</p> <p>Topic 10: Inventories</p> <p>Topic 11: Trade payables</p> <p>Topic 12: Trade receivables and allowance for impairment</p> <p>Topic 13: Long-term borrowings</p> <p>Topic 14: Financial statements (with adjustments)</p>
<p><b>Science (Chemistry/ Biology)</b></p>	<p><b>Paper 1 (Chemistry + Biology):</b> 40 Multiple Choice Questions (20 MCQs for each Science) (40 Marks)</p> <p><b>Paper 3 (Chemistry):</b> Structured Questions + 1 Free Response Question (65 Marks)</p> <p><b>Paper 4 (Biology):</b> Structured Questions + 1 Free Response Question (65 Marks)</p>	<p><b>Science (Chemistry)</b></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: Structure and Properties of Materials</p> <p>Chapter 6: Chemical Formula and Equations</p> <p>Chapter 8: Acids and Bases</p> <p>Chapter 11: The Periodic Table</p> <p>Chapter 12: The Reactivity Series (only Chapter 12.1 and 12.2)</p> <p><b>Science (Biology)</b></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 (Chapter 7.1 only)</p>
<p><b>Science (Physics/ Chemistry)</b></p>	<p><b>Paper 1 (Physics + Chemistry):</b> 40 Multiple Choice Questions (20 MCQs for each Science) (40 Marks)</p> <p><b>Paper 2 (Physics):</b> Structured Questions + 1 Free Response Question (65 Marks)</p> <p><b>Paper 3 (Chemistry):</b> Structured Questions + 1 Free Response Question (65 Marks)</p>	<p><b>Science (Chemistry)</b></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: Structure and Properties of Materials</p> <p>Chapter 6: Chemical Formula and Equations</p> <p>Chapter 8: Acids and Bases</p> <p>Chapter 11: The Periodic Table</p> <p>Chapter 12: The Reactivity Series (only Chapter 12.1 and 12.2)</p> <p><b>Science (Physics)</b></p> <p>Chapter 1: Physical Quantities, Units &amp; Measurement</p> <p>Chapter 2: Kinematics</p> <p>Chapter 3: Forces and Pressure</p> <p>Chapter 4: Dynamics</p> <p>Chapter 5: Turning Effects of Forces</p> <p>Chapter 6: Energy</p> <p>Chapter 7: Kinetic Particle Model of Matter</p> <p>Chapter 8: Thermal Processes</p> <p>Chapter 9: General Wave Properties</p> <p>Chapter 10: Electromagnetic Spectrum</p>