

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

Subject	Format	Topics to be tested
Art	Paper 1: Art Task	Visual Qualities Design Concepts Application Skills
Computing	Paper 1: E-Assessment Paper 2: Practical	Chapter 1: Computer Fundamentals Chapter 2: Graphics Chapter 3: Presentations and Videos Chapter 4: Programming Chapter 5: Game Making Chapter 6: Word Processing
Element of Business Skills	Written Paper	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
English	Paper 1: Writing Section A: Editing Section B: Situational Writing Section C: Continuous Writing Paper 2: Language Use and Comprehension Section A: Language Use (Modified Clozes) -Section B: Reading Comprehension Paper 3: Listening Comprehension <i>*e-exams for Paper 1</i>	All grammar items and skills in writing & comprehension covered from Sec 1 to 3.
Mathematics	Paper 1 1 hour 50 minutes 50 marks Paper 2 1 hour 50 minutes 50 marks	Chapter 1: Indices and Standard Form Chapter 2: Maps & Scales Chapter 3 : Algebraic Expansions, Fractions & Expression for the nth Term Chapter 4: Factorisation & Formulas Chapter 5: Arc lengths & Sectors Areas Chapter 6: Pyramids, Cones & Spheres Chapter 7: Cumulative Frequency Chapter 8: Graphs of Linear Equation Chapter 9: Simultaneous Equations
Mother Tongue	Paper 1: Functional Writing Paper 2: Grammar and Vocabulary, Reading Comprehension Paper 3: 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.

Science	Paper 1: E-Assessment (30 marks) Paper 2: 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 11: Blood Circulation
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**MERIDIAN SECONDARY SCHOOL
END OF YEAR EXAMINATION FORMAT AND TOPICS
SECONDARY 3 G2**

Subject	Format	Topics to be tested
Art	Section A: Visual Analysis (10 marks) Section B: Exploratory Sketching (40 marks)	Visual Analysis Exploratory Sketching
Design & Technology	Section A: Design (24 marks) Section B: Technology - Mechanism (18m) - Electronics (18m)	Design Design & Technology In Society, Design Process, Project Management, Research, Needs Analysis, Ergonomics and Anthropometry, Idea Conceptualisation Mechanism 4 Basic Motions, Function of Mechanism, Levers and Linkages, Cam and Follower, Gears and its Application, Pulley and its Application, Spring and its Applications, Screws and its Applications, Cable Control Electronics Introduction to Electronics (Open and Close Loop System, Energy Source, Conductors, Insulators and Semi-Conductors), Basic Unit used in Electronics, Electronic Component and Switches (SPST, SPDT and DPDT), Electronic Construction, Resistor Colour Coding, Parallel and Series (Voltage, Resistance and Current), Transistors and Sensing Circuit
English	Paper 1 Section A: Editing Section B: Situational Writing Section C: Continuous Writing Paper 2 Section A: Visual text. Section B: Narrative Comprehension Section C: Non-narrative Comprehension and Summary Paper 3 Listening Comprehension	All grammar items, writing skills and comprehension questions covered from Sec 1 to Sec 3.
Humanities (Social Studies)	Section A: Source-Based Case Study (35 marks) Section B: Structured-Response Questions (15 marks) *Paper is e-exams.	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? SBCS Skills tested: Inference, Purpose, Comparison, Reliability and Evaluation

Humanities (Elective Geography)	Structured Response Questions (30 marks) Geographical Investigation Data A	Cluster: Geography Everyday Life Topic 1: Thinking Geographically Topic 2: Sustainable Development Topic 3: Geographical Methods
Humanities (Elective History)	Section A: Source Based Qns (30 marks) Answer all questions. Section B: Structured Essay Qns (20 marks)	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 SBQ skills tested: Inference, Purpose, Comparison, Reliability and Evaluation
Mathematics	Paper 1: 1 h 30 mins, 50 marks (50%) Paper 2: 1 h 30 mins, 50 marks (50%)	Chapter 1: Algebraic Manipulation Chapter 2: Quadratic Equations Chapter 3: Graphs of Quadratic Functions Chapter 4: Indices Chapter 5: Coordinate Geometry Chapter 6: Congruence and Similarity Chapter 8: Trigonometric Ratios Chapter 9: Further Trigonometry
Mother Tongue	CL/ ML Paper 1: Functional Writing + Essay Writing Paper 2: Grammar, Vocabulary, Comprehension Paper 3: Listening Comprehension *e-exams for Paper 1 and 2	All grammar items and skills in writing & comprehension covered from Sec 1 to 3.
Principles of Accounts (POA)	Structured Questions (80 marks) Including a 20-mark question requiring the preparation of financial statements for a business for one financial year	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 10: Trade Receivables Chapter 12: Trade Payables

Science (Physics/ Chemistry)	Paper 1: MCQ (20 marks) Paper 2: Structured (30 marks) - Section A: 22/30 - Section B: 8/30 (choose 1 out of 2 questions) Paper 3: MCQ (20 marks) Paper 4: Structured (30 marks) - Section A: 22/30 - Section B: 8/30 (choose 1 out of 2 questions)	Science Chemistry Chapter 1: Experimental Chemistry Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding Chapter 5.1 - 5.3: Structure and Properties of Materials Chapter 6: Chemical Formula and Equations Chapter 7.1 - 7.2: Mole and Stoichiometry Chapter 8: Acids and Bases Chapter 11: The Periodic Table Science Physics Chapter 1: Physical Quantities, Units and Measurement Chapter 2: Kinematics Chapter 3: Forces and Pressure Chapter 4: Dynamics Chapter 6: Kinetic Particle Model of Matters Chapter 7: Thermal Processes Chapter 8: General Waves Theory Chapter 9: Electromagnetic Spectrum
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MERIDIAN SECONDARY SCHOOL
END OF YEAR EXAMINATION FORMAT AND TOPICS
SECONDARY 3 G3

Subject	Format	Topics to be tested
Additional Mathematics	One paper - 2 hour 15 mins Answer all questions. Total marks: 90	Chapter 1: Quadratic Functions Chapter 2: Equation 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: Equation of Circle Chapter 9: Linear Law
Art	Section A: Visual Analysis (10 marks) Section B: Exploratory Sketching (40 marks)	Visual Analysis Exploratory Sketching
Biology	Paper 1 30 Multiple Choice Questions (30 marks) Paper 2 Section A: 8 to 10 Structured Questions (50 marks) Section B: Choose 2 out of 3 structured questions (20 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: Homeostasis & Hormonal Control Chapter 10: Nervous System and the Eye
Chemistry	Paper 1 30 Multiple Choice Questions (30 marks) Paper 2 Section A: 8 to 10 Structured Questions (50 marks) Section B: Choose 2 out of 3 structured questions (20 marks)	Chapter 1: Experimental Chemistry Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding Chapter 5: Structures & Properties of Materials Chapter 6: Chemical Equations Chapter 7: Mole Concept Chapter 8: Acids and Bases Chapter 9: Salts Chapter 10: Ammonia Chapter 11: Qualitative Analysis Chapter 14: Periodic Table
D&T	Four Questions (80 marks) - One Case-Based Design Question set based mainly on the Design content section (26 marks) - Three Design Application Questions relating to structures, mechanisms and electronics from the Technology content section; one question on each area (54 marks)	Design: Design Process, Project Management Needs Analysis, Research, Idea Conceptualisation, Ergonomics and Anthropometry Technology: Mechanisms, Structures, Electronics

English	Paper 1 Section A: Editing Section B: Situational Writing Section C: Continuous Writing Paper 2 Section A: Visual text. Section B: Narrative Comprehension Section C: Non-narrative Comprehension and a summary writing task. Paper 3 Listening Comprehension	Skills covered from Sec 1 to 3.
Geography	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 Section B or C.</i>	Geography in Everyday Life: Topics 1 – 3 Tourism: Topics 1 – 3 Climate: Topics 1 – 2.2
History	Section A: Source Based Questions (30m) Section B: Structured Essay Questions (20m)	Chapter 1 – Chapter 8 From Case Study of British Colonial Rule in Malay, 1870-1920s to the outbreak of WWII in Asia Pacific
Humanities (Elective Geography)	Section A: Geography in Everyday Life (25 marks) Section B: Climate (15 marks), inclusive of 1 Open-ended Question	Geography in Everyday Life: Topics 1 - 3 Climate: Topic 1 – 2.2
Humanities (Elective History)	Section A: Source Based Questions (30m) Section B: Structured Essay Questions (20m)	Chapter 1 – Chapter 5 From Paris Peace Conference and the League of Nations in the 1920s to the Outbreak of World War II in Asia Pacific
Humanities (Elective Literature)	Section A: Passage Based Question or Essay (25m) Section B: Unseen Poetry (25m)	The Chrysalids Chapters 1 – 10
Humanities (Social Studies)	Section A: Source-Based Case Study (35 marks) Section B: Structured-Response Questions (15 marks)	<u>Exploring Citizenship and Governance</u> 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? <u>Living in a Diverse Society</u> 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?

Mathematics	Paper 1: Structured and Short-Answer Questions, 60 marks (50%) Paper 2: Structured and long-answer Questions, 60 marks (50%)	Chapter 1: More About Quadratic Equations Chapter 2: Linear Inequalities Chapter 3: Indices Chapter 4: Coordinate Geometry Chapter 5: Functions and Graphs Chapter 6: Conditions Of Congruence and Similarity Chapter 7: Trigonometry Chapter 8: Applications Of Trigonometry Chapter 9: Arc Lengths and Sector Areas Lower Secondary topics: Prime Factorisation, HCF & LCM, Approximation and Estimation, Algebraic Expressions (Simplify, Expand, Factorise), Problems in Real-World Contexts.
Mother Tongue	CL/ ML/ HCL Paper 1: Functional Writing + Essay Writing Paper 2: Grammar, Vocabulary, Comprehension Paper 3: Listening Comprehension	CL/ ML All grammar items and skills in writing & comprehension covered from Sec 1 to 3. Higher CL All grammar items and skills in writing & comprehension covered from Sec 1 to 3. (Include expository/argumentative essay, editing, summary)
Physics	Paper 1 30 Multiple Choice Questions Paper 2 Section A: 8 to 10 Structured Questions Section B: Choose 2 out of 3 structured questions	Chapter 1: Physical Quantities, Units & 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
Principles of Accounts (POA)	One paper - 2 hours Answer all questions. One question requires the preparation of financial statements.	Topic 1: Introduction to accounting Topic 2: Elements of financial statements and the accounting equation 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 of trade receivables Topic 13: Long-term borrowings Topic 14: Financial statements (with adjustments)

Science (Chemistry/ Biology)	Paper 1 (Chemistry + Biology) 40 Multiple Choice Questions Paper 3 (Chemistry) Section A: 55 marks Section B: 10 marks (Choose 1 of 2 Questions) Paper 4 (Biology) Section A: 55 marks Section B: 10 marks (Choose 1 of 2 Questions)	Science (Chemistry) Chapter 1: Experimental Chemistry, Separation Methods Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding Chapter 5: Structures & Properties of Materials Chapter 6: Chemical Formula and Equations Chapter 8: Acids and Bases Chapter 11: Periodic Table Chapter 12: Reactivity Series Science (Biology) Chapter 1: Cell Structure and Function 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
Science (Physics/ Chemistry)	Paper 1 (Physics + Chemistry) 40 Multiple Choice Questions Paper 2 (Physics) Section A: 55 marks Section B: 10 marks (Choose 1 of 2 Questions) Paper 3 (Chemistry) Section A: 55 marks Section B: 10 marks (Choose 1 of 2 Questions)	Science (Chemistry) Chapter 1: Experimental Chemistry, Separation Methods Chapter 2: Kinetic Particle Theory Chapter 3: Atomic Structure Chapter 4: Chemical Bonding Chapter 5: Structures & Properties of Materials Chapter 6: Chemical Formula and Equations Chapter 8: Acids and Bases Chapter 11: Periodic Table Chapter 12: Reactivity Series Science (Physics) Chapter 1: Physical Quantities, Units & Measurement Chapter 2: Kinematics Chapter 3: Forces and Pressure Chapter 4: Dynamics Chapter 5: Turning Effects of Forces Chapter 6: Energy Chapter 7: Kinetic Particle Model of Matter Chapter 8: Thermal Processes Chapter 9: General Properties of Waves Chapter 10: Electromagnetic Spectrum