

Woodgrove Secondary School
O-Level Preliminary Examination 2026
Topics Coverage & Assessment Format

Level/Stream: Sec 4 G3

Subject	Topics/ Chapters	Assessment Format (format, duration, total marks & date of assessment)
English Language	Paper 1: Writing [35%] Section A: Editing - Students will be tested on grammatical features taught from Sec 1 – 4. Students will <u>NOT</u> be required to provide the Grammar Error Type (G.E.T.) for the errors identified. Section B: Situational Writing (250 – 350 words) - One text-type will be assessed based on any text-type taught (e.g. <i>article, informal letter/email, formal letter/email, speech, proposal, etc.</i>) Section C: Continuous Writing (350 – 500 words) - Students will be required to choose one out of four questions and write an essay based on any of the text-types taught. (e.g. <i>narrative, expository, reflective, etc.</i>) Paper 2: Comprehension [35%] Section A - Visual Texts Section B - Narrative or Recount Text - All Question Types Section C - Non-narrative Text - All Question Types - Summary (not more than 80 words) Paper 3: Listening [10%] Students listen to a variety of spoken texts and complete a range of listening tasks. Spoken texts such as conversations, speeches, announcements, reports and information texts may be included. Paper 4: Oral Communication [20%] Part 1: Planned Response Students will plan and deliver a response to a video clip and accompanying prompt. Part 2: Spoken Interaction Students will engage in a discussion with the examiners on a topic based on the same visual clip.	Paper 1 (70 m) Duration: 1 hr 50 mins Paper 2 (50 m) Duration: 1 hr 50 mins Paper 3 (30 m) Duration: 45 mins Paper 4 (30 m) Duration: 15 mins

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Mathematics	• Numbers and their operations, • Ratio and proportion • Percentage • Rate and speed • Algebraic expressions and formulae • Functions and Graphs • Equations and inequalities • Set language and notation • Matrices • Angles, triangles and polygons • Congruence and similarity • Properties of circles • Pythagoras' theorem and trigonometry • Mensuration • Coordinate geometry • Vectors in two dimensions • Data handling and analysis • Probability	<u>Paper 1 (90 marks)</u> Duration: 2 h 15 mins Answer all questions <u>Paper 2 (90 marks)</u> Duration: 2 h 15 mins Answer all questions
Additional Mathematics	• Quadratic functions • Equations and inequalities • Surds • Polynomials and partial fractions • Binomial expansions • Exponential and logarithmic functions • Trigonometric functions, identities and equations • Coordinate geometry in two dimensions • Proofs in plane geometry • Differentiation and integration	<u>Paper 1 (90 marks)</u> Duration: 2 h 15 mins Answer all questions <u>Paper 2 (90 marks)</u> Duration: 2 h 15 mins Answer all questions
Pure Biology	Topic 1: Cell Structure and Organisation Topic 2: Movement of Substances Topic 3: Biological Molecules Topic 4: Nutrition in Humans Topic 5: Transport in Humans Topic 6: Respiration in Humans Topic 7: Excretion in Humans Topic 8: Homeostasis, Co-ordination and Response in Humans Topic 9: Infectious Diseases in Humans Topic 10: Nutrition and Transport in Flowering Plants Topic 11: Organisms and Their Environment Topic 12: Molecular Genetics Topic 13: Inheritance Topic 14: Reproduction Textbook: GCE 'O' Level Biology Matters	Paper 1 [1 h] Multiple Choice Questions (40m) Paper 2 [1h 45mins] <u>Section A (70m)</u> Compulsory Structured Questions with one free response question and one data-based question as the last two questions. <u>Section B(10m)</u> Section B will consist of two free response questions. Candidates

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		must answer only one out of these two questions. Paper 3 [1h 50 min] (40 marks)
Pure Chemistry	Chapter 1: Experimental Techniques 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 11: Qualitative Analysis Chapter 12: Oxidation and Reduction Chapter 13: Electrochemistry Chapter 14: The Periodic Table Chapter 15: The Reactivity Series Chapter 16: Chemical Energetics Chapter 17: Rate of Reactions Chapter 18: Fuels and Crude Oil Chapter 19: Hydrocarbons Chapter 20: Alcohols and Carboxylic Acids Chapter 21: Polymers Chapter 22: Maintaining Air Quality Textbook: Discover Chemistry GCE 'O' and Normal (A) Level Science 3rd Edition	Paper 1 [1 h] Multiple Choice Questions (40m) Paper 2 [1h 45 mins] <u>Section A (70m)</u> Compulsory Structured Questions with one free response question and one data-based question as the last two questions. <u>Section B(10m)</u> Section B will consist of two free response questions. Candidates must answer only one out of these two questions. Paper 3 [1h 50 min] (40 marks)
Pure Physics	Topic 1: Physical Quantities, Units and Measurement Topic 2: Kinematics Topic 3: Dynamics I (Mass & Weight) Topic 4: Dynamics II (Forces) Topic 5: Turning Effect of Forces Topic 6: Pressure Topic 7: Energy Topic 8: Kinetic Model of Matter Topic 9: Thermal Processes Topic 10: Thermal Properties of Matter Topic 11: General Wave Properties I (Introduction) Topic 12: General Wave Properties I (Sound) Topic 13: Electromagnetic Waves Topic 14: Light Topic 15: Static Electricity	Paper 1 [1 h] Multiple Choice Questions (40m) Paper 2 [1h 45mins] <u>Section A (70m)</u> Compulsory Structured Questions with one free response question and one data-based

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	Topic 16: Current of Electricity Topic 17: D.C. Circuits Topic 18: Practical Electricity Topic 19: Magnetism Electromagnetic Induction Topic 20: Electromagnetism Radioactivity Topic 21: Electromagnetic Induction Topic 22: Radioactivity Textbook: GCE 'O' Level Physics Matters	question as the last two questions. <u>Section B (10m)</u> Section B will consist of two free response questions. Candidates must answer only one out of these two questions. Paper 3 [1h 50 min] (40 marks)
Combined Science (Biology)	Topic 1: Cell Structure and Organisation Topic 2: Movement of Substances Topic 3: Biological Molecules Topic 4: Nutrition in Humans Topic 5: Transport in Humans Topic 6: Respiration in Humans Topic 7: Infectious Diseases in Humans Topic 8: Nutrition and Transport in Flowering Plants Topic 9: Organisms and Their Environment Topic 10: Molecular Genetics Topic 11: Inheritance Topic 12: Reproduction in Humans Textbook: Discover Biology GCE 'O' Level Science	Paper 1 [1 h] Multiple Choice Questions consisting of 20 Biology and 20 Chemistry questions (40 m) Paper 4 [1 h 15 min] <u>Section A (55m)</u> Short Structured Questions <u>Section B (10m)</u> Free Response Questions (2 choose 1) Paper 5 [1h 30min] (15 marks)
Combined Science (Chemistry)	Chapter 1: Experimental Techniques 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: Test for Gases Chapter 10: Oxidation and Reduction Chapter 11: The Periodic Table Chapter 12: The Reactivity Series Chapter 13: Chemical Energetics Chapter 14: Rate of Reactions Chapter 15: Fuels and Crude Oil Chapter 16: Hydrocarbons	Paper 1 [1 h] Multiple Choice Questions consisting of 20 Physics/Biology and 20 Chemistry questions (40 marks) Paper 3 [1 h 15 min] <u>Section A (55 marks)</u>

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	Chapter 17: Alcohols and Carboxylic Acids Chapter 18: Polymers Chapter 19: Maintaining Air Quality Textbook: Discover Chemistry GCE 'O' Level Science 3rd Edition	All compulsory structured questions. The last question will carry 10 marks. <u>Section B (10 marks)</u> Two questions. (Choose 1 out of 2) Paper 5 [1h 30min] 1 Chemistry Question (15 marks) and 1 Physics/Biology Question (15 marks)
Combined Science (Physics)	Topic 1: Physical Quantities, Units and Measurement Topic 2: Kinematics Topic 3: Force and Pressure Topic 4: Dynamics Topic 5: Turning Effect of Forces Topic 6: Energy Topic 7: Kinetic Model of Matter Topic 8: Thermal Processes Topic 9: General Waves Properties 1 Topic 10: General Waves Properties 2: Sound Topic 11: Electromagnetic Waves Topic 12: Light Topic 13: Electric Charge and Current of Electricity Topic 14: D.C. Circuits Topic 15: Practical Electricity Topic 16: Magnetism & Electromagnetism Topic 17: Radioactivity Textbook: Discover Physics GCE 'O' Level Science	Paper 1 [1 h] Multiple Choice Questions consisting of 20 Physics and 20 Chemistry questions (40 marks) Paper 2 [1h 15mins] <u>Section A (55 marks)</u> All compulsory structured questions. The last question will carry 10 marks. <u>Section B (10 marks)</u> Two questions. (Choose 1 out of 2) Paper 5 [1h 30min] (15 marks)

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Humanities (Social Studies)	Skills: SBCS – Inference, Comparison, Reliability, Utility, Hybrid, Evaluation SRQ – Constructing explanations based on 3 extracts Content: <u>Issue 1:</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>Issue 2:</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? Chapter 7 – How Can We Respond to Diversity in Society? <u>Issue 3:</u> Chapter 8 – What are the Factors that Contribute to Globalisation? Chapter 9 – How Can We Respond to the Economic Impacts of Globalisation? Chapter 10 – How Can We Respond to the Cultural Impacts of Globalisation? Chapter 11 – How Can We Respond to the Security Impacts of Globalisation?	Answer all questions. Section A (35m) Source-Based Case Study, Questions 1 – 5. Section B (15m) Structured Response Question, Questions 6 & 7. Total: 50 marks Duration: 1 hr 45 min
Humanities (Geography Elective)	- Geography in Everyday Life Cluster - Thinking geographically (Textbook, pp. 1 – 19) - Sustainable development (Textbook, pp. 20 – 38) - Geographical methods (Textbook, pp. 39 – 71) - Climate Cluster - Weather and Climate (Textbook, pp. 1 – 27) - Climate Change (Textbook, pp. 28 – 62) - Climate Action (Textbook, pp. 63 – 88) - Tourism Cluster - Tourism Activity (Textbook, pp. 1 – 27) - Tourism Development (Textbook, pp. 28 – 51) - Sustainable Tourism Development (Textbook, pp. 52 – 79) Textbook: - Geography in Everyday Life Cluster (CPDD) - Climate Cluster (CPDD) AND - Tourism Cluster (CPDD)	Section A Q 1: Cluster 1- Geography in Everyday Life (Compulsory) [14m] Q 2: Cluster 2- Tourism (Compulsory) [18m] Section B Q3: Cluster 3- Climate (Compulsory) [18m] Total: 50 marks Duration: 1 hr 45 mins
Humanities (History Elective)	<u>Topics Tested:</u> - Impact of World War I - Rise of Authoritarian Regimes and Its impacts: Nazi Germany and Militarist Japan - Outbreak of WWII in Europe & Asia- Pacific - End of WWII - Origins and Development of the Cold War in Europe - Extension of CW outside Europe: Korean War & Vietnam War - End of the Cold War	Section A (30m) Source-Based Case Study - 5 sub-questions (all compulsory) Section B (20m)

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	<u>Source-Based Case Study (SBCS) Skills</u> - Basic inference & Inference with purpose - Compare and Contrast - Reliability - Utility - Evaluation - Surprise - Hybrid <u>Structured Essay Questions (SEQ)</u> - Evaluate and make judgement on event and/or issue Textbooks: Unit 1: The Making of the 20th Century World: 1910-1942 Unit 2: The Making of the 20th Century World: 1940s-1991	Structured Essay Questions - Choose 2 out of 3 questions Total: 50 marks Duration: 1 hr 50 mins
Humanities (Literature Elective)	Set Text Prose and Unseen Poetry <u>Section A: Prose – The Chrysalids</u> Students will be given a two-part passage-based question and two essay questions on <i>The Chrysalids</i> by John Wyndham. Students must answer only one. <u>Section B: Unseen Poetry</u> Students will answer a two-part question on an unseen poem. Students will have two poems to choose from – one Singaporean poem and one non-Singaporean poem.	Total: 50 marks Duration: 1hr 40mins
Full Geography	Paper 1 Question 1: 20 marks Cluster 1: Geography in Everyday Life • Topic 1.3 – Geographical Methods Question 2: 15 marks Cluster 2: Tourism 7. Topic 2.1 – Tourism Activity 8. Topic 2.2 – Tourism Development 9. Topic 2.3 – Sustainable Tourism Development Question 3: 15 marks Cluster 3: Climate • Topic 3.1 – Weather and Climate • Topic 3.2 – Climate Change • Topic 3.3 – Climate Action Paper 2 Question 1: 15 marks Cluster 1: Geography in Everyday Life • Topic 1.1 – Thinking Geographically • Topic 1.2 – Sustainable Development Question 2: 15 marks Cluster 4: Tectonics • Topic 4.1 – Plate Tectonics • Topic 4.2 – Earthquakes and Volcanoes • Topic 4.3 – Disaster Risk Management	Paper 1 (50%) Duration: 1hr 45 mins Total: 50 marks Question types: Short-answer question & 1 essay question Question 1: Geographical investigation (20 marks) Question 2*: Tourism (15 marks) Question 3*: Climate (15 marks) * 9 mark essay question can be tested in either Question 2 or 3. Paper 2 (50%)

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	Question 3: 20 marks Cluster 5: Singapore • Topic 5.1 – Small Island City-State • Topic 5.2 – Opportunities and Challenges • Topic 5.3 – Sustainable and Resilient Singapore All 5 textbooks	Duration: 1 hr 45 mins Total: 50 marks Question 1: Geography in Everyday Life (15 marks) Question 2*: Tectonics (15 marks) Question 3*: Singapore (20 marks) * 9 mark essay question can be tested in either Question 2 or 3.						
Full Literature	Set Text Prose and Unseen Poetry <u>Paper 1 (50%)</u> <u>Section A: Prose - Fahrenheit 451 (25m)</u> Students will be given a two-part passage-based question and two essay questions on <i>The Chrysalids</i> by John Wyndham. Students must answer only one. <u>Section B: Unseen Poetry (25m)</u> Students will answer a two-part question on an unseen poem. Students will have two poems to choose from – one Singaporean poem and one non-Singaporean poem. <u>Paper 2 (50%)</u> <u>Drama (50m)</u> Students will answer one out of two essay questions, as well as a two-part passage-based question on “<i>Master Harold</i>”...and the Boys by Athol Fugard.	Total: 50 marks Duration: 1hr 40mins Total: 50 marks Duration: 1hr 30mins						
Computing 7155	<table><tr><th>Modules</th><th>Chapters</th></tr><tr><td>Module 1 Computing Fundamentals</td><td>Chapter 1: Computer Architecture Chapter 2: Data Representation Chapter 3: Logic Gates</td></tr><tr><td>Module 2 Algorithms and Programming</td><td>Chapter 4: Programming Chapter 5: Input Validation Chapter 6: Testing and Debugging Chapter 7: Algorithm Design Chapter 8: Software Engineering</td></tr></table>	Modules	Chapters	Module 1 Computing Fundamentals	Chapter 1: Computer Architecture Chapter 2: Data Representation Chapter 3: Logic Gates	Module 2 Algorithms and Programming	Chapter 4: Programming Chapter 5: Input Validation Chapter 6: Testing and Debugging Chapter 7: Algorithm Design Chapter 8: Software Engineering	<u>Paper 1 (60%)</u> Total: 80 marks Duration: 2 h • All the five modules A mixture of • Multiple choice questions (single- and multiple-answer)
Modules	Chapters							
Module 1 Computing Fundamentals	Chapter 1: Computer Architecture Chapter 2: Data Representation Chapter 3: Logic Gates							
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	Module 3 Spreadsheets	Chapter 9: Spreadsheets	• Short-answer questions • Matching questions • Cloze passages • Structured questions <u>Paper 2 (40%)</u> Total: 70 marks Duration: 2 h 30 min • One question on Spreadsheets • Four to five questions on programming • Module 2 and 3 A quick reference for Python will be provided for candidates.
	Module 4 Networking	Chapter 10: Networking Chapter 11: Security and Privacy	
	Module 5 Impact of Computing	Chapter 12: Intellectual Property Chapter 13: Impact of Computing Chapter 14: Emerging Technologies	
Nutrition and Food Science	1. Proteins 2. Carbohydrates 3. Fats 4. Vitamins 5. Minerals 6. Water 7. Dietary Fibre 8. Diet & Health Problems 9. Diet & Meal Planning 10. Meal Analysis 11. Sustainable Food Consumption 12. Convenience Food 13. Food Safety 14. Preparation and Cooking of Food 15. Methods of Cooking 16. Reactions in Food during Preparation and Cooking 17. Sensory Evaluation Textbook: Nutrition and Food Science(CPDD) Star Publishing Pte Ltd		Format: Written Paper Duration: 2 hrs Total 100 marks Section A: 15 marks (multiple choice questions) Section B: 55 marks (short-answer-type questions and data-response-type questions) Section C: 30 marks (open-ended questions)