

Woodgrove Secondary School
O-Level Preliminary Examination 2022
Topics Coverage & Assessment Format

Level/Stream: Sec 5 Normal (Academic)

Subject	Topics/ Chapters	Assessment Format (format, duration, total marks & date of assessment)
English Language	<p>Paper 1: Writing [35%]</p> <p>Section A: Editing</p> <ul style="list-style-type: none"> 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. <p>Section B: Situational Writing (250 – 350 words)</p> <ul style="list-style-type: none"> 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>) <p>Section C: Continuous Writing (350 – 500 words)</p> <ul style="list-style-type: none"> 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>) <p>Paper 2: Comprehension [35%]</p> <p>Section A: Comprehension I</p> <ul style="list-style-type: none"> Visual Text <p>Section B: Comprehension II</p> <ul style="list-style-type: none"> Narrative or Recount Text All Question Types <p>Section C: Comprehension III</p> <ul style="list-style-type: none"> Non-narrative Text All Question Types Summary (not more than 80 words) <p>Paper 3: Listening [10%]</p> <ul style="list-style-type: none"> 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. <p>Paper 4: Oral Communication [20%]</p> <ul style="list-style-type: none"> Students will read aloud a text as well as engage in a discussion with the examiners on a topic based on a visual stimulus. 	<p>Paper 1 (70 m) Duration: 1 hr 50 mins</p> <p>Paper 2 (50 m) Duration: 1 hr 50 mins</p> <p>Paper 3 (30 m) Duration: 45 mins</p> <p>Paper 4 (30 m) Duration: 15 mins</p>
Elementary Mathematics	<p>1) Numbers and Algebra Numbers and the four operations, Ratio, Rate and Proportion, Percentage, Speed, Algebraic Representation and Formulae, Algebraic Manipulation, Functions and Graphs, Solutions of Equations and Inequalities, Applications of Mathematics in Practical Solutions, Set Language and Notation, Matrices</p> <p>2) Geometry and Measurement Angles, Triangles and Polygons, Congruence and Similarity, Properties of circles, Pythagoras' Theorem and Trigonometry, Mensuration, Coordinate Geometry, Vectors in two dimensions.</p> <p>3) Statistics and Probability</p>	<p><u>Paper 1 (80 marks)</u> Answer all questions</p> <p>Duration: 2 h</p> <p><u>Paper 2 (100 marks)</u> Answer all questions</p> <p>Duration: 2 h 30 mins</p>

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	Data Handling, Data Analysis, Probability	
Additional Mathematics (4049)	Chapter 1: Equations and Inequalities Chapter 2: Surds and Indices Chapter 3: Polynomials and Partial Fractions Chapter 4: The Modulus and Power Functions Chapter 5: Binomial Theorem Chapter 6: Points, Lines and Shapes Chapter 7: Logarithms Chapter 8: Applications of Straight Line Graphs Chapter 9: Parabolas and Circles Chapter 10: Plane Geometry Chapter 11: Trigonometric Functions Chapter 12: Simple Trigonometric Identities and Equations Chapter 13: Further Trigonometric Identities Chapter 14: Differentiation Chapter 15: Tangents, Normals and Rate of Change Chapter 16: Maxima and Minima Chapter 17: Further Differentiation Chapter 18: Integration Chapter 19: Application of Integration - Area of a Region Chapter 20: Application of Integration - Kinematics Textbook: Additional Mathematics 360 (Marshall Cavendish Education)	Paper 1 (80 marks) Answer all questions Duration: 2 h Paper 2 (100 marks) Answer all questions Duration: 2 h 30 mins
Combined Science (Chemistry)	Chapter 1: Kinetic Particle Theory Chapter 2: Measurement and Experimental Techniques Chapter 3: Separation and Purification Chapter 4: Elements, Compound and Mixture Chapter 5: Atomic Structure Chapter 6: Chemical Bonding Chapter 7: Writing Chemical Equations Chapter 8: The Mole Chapter 9: Chemical Calculations Chapter 10: Acids and Bases Chapter 11: Salts Chapter 12: Oxidation and Reduction Chapter 13: Metals Chapter 14: The Periodic Table Chapter 15: Energy Changes Chapter 16: Speed of Reaction Chapter 17: Atmosphere and Environment Chapter 18: An Introduction to Organic Chemistry Chapter 19: Alkanes and Alkenes Chapter 20: Alcohols and Carboxylic Acids Textbook: Discover Chemistry GCE 'O' Level Science 2nd Edition	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 (45m)</u> Short Structured Questions <u>Section B (20m)</u> Free Response Questions (choose 2 out of 3)
Combined Science (Physics)	Chapter 1: Physical Quantities, Units and Measurements Chapter 2: Kinematics Chapter 3: Forces & Pressure Chapter 4: Mass, Weight & Density Chapter 5: Turning Effect of Forces	Paper 1 [1 h] Multiple Choice Questions consisting of 20 Physics and 20

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	Chapter 6: Energy, Work and Power Chapter 7: Kinetic Model of Matter Chapter 8: Transfer of Thermal Energy Chapter 9: Thermal Properties of Matter Chapter 10: Light Chapter 11: Waves Chapter 12: Electromagnetic Waves Chapter 13: Sound Chapter 14: Static Electricity Chapter 15: Current Electricity Chapter 16: DC Circuits Chapter 17: Practical Electricity Chapter 18: Magnetism and Electromagnetism Textbook: Discover Physics GCE 'O' Level Science	Chemistry questions (40 m) Paper 2 [1 h 15 min] <u>Section A (45m)</u> Short Structured Questions <u>Section B (20m)</u> Free Response Questions (choose 2 out of 3)
Humanities (Social Studies)	<u>Source-Based Case Study (SBCS) Skills</u> - Inference - Compare and Contrast - Reliability - Utility - Are you surprised? + Hybrid questions - Evaluation <u>Structured Response Questions</u> - Explain 2 suggestions - Evaluate factors Textbook: Upper Secondary Social Studies, Ch 1 - 11	Section A (35 m) - Source-Based Case Study - 5 sub-questions (all compulsory) Section B (15 m) - Structured Response Questions - 2 sub-questions (all compulsory) Total: 50 marks Duration: 1 hr 45 mins
Humanities (Geography Elective)	1. Geographical Skills and Investigation Gateway 1, 2 and 3 (Sec 3 textbook pp. 124 – 177) 2. Variable Weather and Changing Climate Gateway 1 and 2 (Sec 3 textbook pp. 70 - 123) 3. Global Tourism Gateway 1, 2 and 3 (Sec 4 textbook pp. 2 – 89) 4. Living with Tectonic Hazards Gateway 1, 2 and 3 (Sec 3 textbook pp. 2 - 69) 5. Food Resources Gateway 1 and 2 (Sec 4 textbook pp. 90 – 152) Textbook: 1. All About Geography Upper Secondary – Physical Geography Elective (Revised Edition) (Hodder Education) AND 2. All About Geography Upper Secondary – Human Geography Elective (Revised Edition) (Hodder Education)	Section A (13m) Q1 or Q2: Geographical investigation on variable weather and changing climate and global tourism Section B (12m) Q3 or Q4: Structured questions on variable weather and changing climate and/or global tourism Section C (25m) Q5 or Q6: Structured questions on living with tectonic hazards and/or food resources Total: 50 marks Duration: 1 hr 40 mins

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Design & Technology	<p>Written Paper (40%) 80 marks Q1 Design-centric question::Technology in Society, Design Situation, Ideation, Evaluation, Research, Design Communication, Ergonomics & Anthropometry (26 marks) Q2 Electronics (18 marks) Q3 MEchanism (18 marks) Q4:Structures (18 marks)</p> <p>Refer to D&T revision guide</p> <p>60% of overall marks from coursework</p>	<p>Answer all questions</p> <p>Duration: 2 hour</p> <p>Total: 80 marks</p>
Nutrition & Food Science	<ol style="list-style-type: none"> 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 <p>Textbook: Nutrition and Food Science(CPDD) Star Publishing Pte Ltd</p>	<p>Format: Written Paper Duration: 2 hrs Total 100 marks</p> <p>Section A: 15 marks (multiple choice questions)</p> <p>Section B: 55 marks (short-answer-type questions and data-response-type questions)</p> <p>Section C: 30 marks (open-ended questions)</p>
Art	<p>Art Paper 2 Candidates will be given the question paper three weeks prior to the examination day. Candidates choose one stimuli from the list of given themes. The preparatory works are to be done in class during Art lesson and at home. Candidates must keep their investigation and developments between three to five A3 sheets of the preparatory studies. They are to bring the preparatory works for submission on the examination day.</p> <p>Students are to bring their own drawing and colouring materials such as colour pencils, acrylic paints, brushes, markers, etc.</p> <p>PREPARATORY WORKS: Students are to produce:</p> <ol style="list-style-type: none"> 1. 8 Observational drawings: <i>(The chosen objects are to be coloured & shaded)</i> 2. 6 Developmental studies <i>(The drawings are to be coloured & shaded)</i> 3. 2 Layouts: 	<p>Art Paper 2: Drawing & Painting Duration: 3 hours Total Marks: 100</p> <p>Candidates are to redraw the selected layout onto the A3 size drawing paper provided and complete the drawing with full rendering using colour pencils / acrylic paint / markers.</p> <p>Candidates are to submit their preparatory boards and final work for submission</p>

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	<p>4. <i>(Candidates must produce 2 different layout within the size of A4 drawing paper)</i> 2 Colour Scheme: <i>(Candidates produce 2 different colour schemes based on the layout they have chosen)</i></p>	