



**Woodgrove Secondary School  
Mid-Year Examination 2019  
Topics Coverage & Assessment Format**

<b>Subject</b>	<b>Topics/ Chapters</b>	<b>Assessment Format</b> (format, duration & total marks)
<b>Elementary Mathematics</b>	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  2) Geometry and Measurement Angles, Triangles and Polygons, Congruence and Similarity, Properties of circles, Pythagora's Theorem and Trigonometry, Mensuration, Coordinate Geometry, Vectors in two dimensions.  3) Statistics and Probability Data Handling, Data Analysis, Probability	<u>Paper 1 (80 marks)</u> Answer all questions  Duration: 2 hr  <u>Paper 2 (100 marks)</u> Answer all questions  Duration: 2 hr 30 mins
<b>Additional Mathematics</b>	Chapter 1: Equations & Inequalities, Chapter 2: Indices and Surds, Chapter 3: Polynomials and Partial Fractions, Chapter 4: The Modulus & Power Functions, Chapter 5: Binomial Theorem, Chapter 6: Points Lines & Shapes, Chapter 7: Logarithms, Chapter 8: Applications of Straight Line Graphs, Chapter 9: Parabolas & Circles, Chapter 11: Trigonometric Functions, Chapter 12: Simple Trigonometric Identities And Equations, Chapter 13: Further Trigonometric Identities, Chapter 14: Differentiation, Chapter 15: Tangents Normals & Rates of Change, Chapter 16: Maxima & Minima, Chapter 17: Further Differentiation  Textbook: Additional Mathematics 360 (Marshall Cavendish Education)	One Paper (100 marks)  Answer all questions  Duration: 2 hr 30 mins

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<b>Combined Science (Physics)</b>	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 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 (17.1 & 17.2 only)  Textbook: Discover Physics GCE 'O' Level Science	<b>Paper 1 [1 h]</b> Multiple Choice Questions consisting of 20 Physics and 20 Chemistry questions (40 m)  <b>Paper 2 [1 h 15 min]</b> <u>Section A (45m)</u> Short Structured Questions <u>Section B (20m)</u> Free Response Questions (choose 2 out of 3)
<b>Combined Science (Chemistry)</b>	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 16: Speed of Reaction Chapter 17: Atmosphere and Environment  Textbook: Discover Chemistry GCE 'O' Level Science	<b>Paper 1 [1 h]</b> Multiple Choice Questions consisting of 20 Physics and 20 Chemistry questions (40 m)  <b>Paper 3 [1 h 15 min]</b> <u>Section A (45m)</u> Short Structured Questions <u>Section B (20m)</u> Free Response Questions (choose 2 out of 3)
<b>Humanities (Social Studies)</b>	<u>Source-Based Case Study (SBCS) Skills</u> - Inference - Compare and Contrast - Reliability - Utility - Are you surprised? - Evaluation  <u>Structured Response Questions</u> (Issue 3: Chapters 8 – 10 only) - Explain 2 suggestions - Evaluate factors  Textbook: Upper Secondary Social Studies	<b>Section A (35 m)</b> - Source-Based Case Study - 5 sub-questions (all compulsory)  <b>Section B (15 m)</b> - Structured Response Questions - 2 sub-questions (all compulsory)  Total: 50 marks Duration: 1 hr 45 mins

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<b>Humanities (Geography)</b>	1. Geographical Skills and Investigation Gateway 3 (Sec 3 textbook pp. 166 – 177)  2. Global Tourism Gateway 1, 2 and 3 (Sec 4 textbook pp. 2 – 89)  3. Food Resources Gateway 1 and 2 (Sec 4 textbook pp. 90 – 140)  Textbook: 1. All About Geography Upper Secondary – Physical Geography Elective (Revised Edition) (Hodder Education) <b>AND</b> 2. All About Geography Upper Secondary – Human Geography Elective (Revised Edition) (Hodder Education)	Answer all questions  <b>Section A (13m)</b> Q1: Geographical investigation on variable weather & changing climate  <b>Section B (12m)</b> Q2: Structured question on global tourism  <b>Section C (25m)</b> Q3: Structured question on food resources  Total: 50 marks Duration: 1 hr 40 mins