

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

Subject	Topics/ Chapters	Assessment Format (format, duration & total marks)
Elementary Mathematics	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
Additional Mathematics	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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Pure Biology	Chapter 2: Cells Chapter 3: Movement of substances Chapter 4: Nutrients Chapter 5: Enzymes Chapter 6: Nutrition in Humans Chapter 7: Nutrition in Plants Chapter 8: Transport in Humans Chapter 9: Transport in Plants Chapter 10: Respiration Chapter 11: Excretion Chapter 12: Homeostasis Chapter 13: The Nervous System Chapter 14: The Human Eye Chapter 15: Hormones Chapter 16: Cell Division Chapter 17: Reproduction in Plants Chapter 18: Reproduction in Humans Chapter 20: Molecular Genetics Textbook: GCE 'O' Level Biology Matters	Paper 1 [1 h] Multiple Choice Questions (40m) Paper 2 [1h 45mins] <u>Section A (50m)</u> Structured Questions Section B <u>Section B(30m)</u> The first two questions are compulsory questions, one of which will be a data-based question. The last question will be presented in an either/or form.
Pure Chemistry	Chapter 1: Kinetic Particle Theory Chapter 2: Measurement and Experimental Techniques Chapter 3: Purification and Separation Chapter 4: Elements, Mixtures & Compounds Chapter 5: Atomic Structure Chapter 6: Ionic Bonding Chapter 7: Covalent and Metallic Bonding Chapter 8: Writing Equations Chapter 9: The Mole Chapter 10: Chemical Calculations Chapter 11: Acids & Bases Chapter 12: Salts Chapter 13: Oxidation & reduction Chapter 14: Metals Chapter 15: Electrolysis Chapter 16: Periodic Table Chapter 17: Energy Changes Chapter 18: Speed of Reaction Chapter 19: Ammonia Chapter 20: The Atmosphere and Environment Chapter 21: An Introduction to Organic Chemistry Chapter 22: Alkanes and alkenes Textbook: GCE 'O' Level Chemistry Matters	Paper 1 [1 h] Multiple Choice Questions (40m) Paper 2 [1h 45 mins] <u>Section A (50m)</u> Short Structured Questions <u>Section B (30m)</u> The first two questions are compulsory questions, one of which will be a data-based question. The last question will be presented in an either/or form.
Pure Physics	Chapter 1: Physical Quantities, Units and Measurement Chapter 2: Kinematics Chapter 3: Forces & Dynamics Chapter 4: Mass, Weight and Density Chapter 5: Turning Effect of Forces Chapter 6: Energy, Work & Power Chapter 7: Pressure Chapter 8: Temperature	Paper 1 [1 h] Multiple Choice Questions (40m) Paper 2 [1h 45mins] <u>Section A (50m)</u> Structured Questions

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	Chapter 9: Kinetic Model of Matter Chapter 10: Transfer of Thermal Energy Chapter 11: Thermal Properties of Matter Chapter 12: Light Chapter 13: General Wave Properties Chapter 14: Electromagnetic Spectrum Chapter 15: Sound Chapter 16: Static Electricity Chapter 17: Current of Electricity Chapter 18: D.C. Circuits Chapter 19: Practical Electricity Textbook: GCE 'O' Level Physics Matters	Section B <u>Section B(30m)</u> The first two questions are compulsory questions, one of which will be a data-based question. The last question will be presented in an either/or form.
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 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	Paper 1 [1 h] Multiple Choice Questions consisting of 20 Physics and 20 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)
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 16: Speed of Reaction Chapter 17: Atmosphere and Environment Textbook: Discover Chemistry GCE 'O' Level Science	Paper 1 [1 h] Multiple Choice Questions consisting of 20 Physics and 20 Chemistry questions (40 m) 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)

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Humanities (Social Studies)	<p><u>Source-Based Case Study (SBCS) Skills</u></p> <ul style="list-style-type: none"> - Inference - Compare and Contrast - Reliability - Utility - Are you surprised? - Evaluation <p><u>Structured Response Questions</u> (Issue 3: Chapters 8 – 10 only)</p> <ul style="list-style-type: none"> - Explain 2 suggestions - Evaluate factors <p>Textbook: Upper Secondary Social Studies</p>	<p>Section A (35 m)</p> <ul style="list-style-type: none"> - Source-Based Case Study - 5 sub-questions (all compulsory) <p>Section B (15 m)</p> <ul style="list-style-type: none"> - Structured Response Questions - 2 sub-questions (all compulsory) <p>Total: 50 marks Duration: 1 hr 45 mins</p>
Humanities (Geography)	<ol style="list-style-type: none"> 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) <p>Textbook:</p> <ol style="list-style-type: none"> 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) 	<p>Answer all questions</p> <p>Section A (13m) Q1: Geographical investigation on variable weather & changing climate</p> <p>Section B (12m) Q2: Structured question on global tourism</p> <p>Section C (25m) Q3: Structured question on food resources</p> <p>Total: 50 marks Duration: 1 hr 40 mins</p>