

Woodgrove Secondary School Mid-Year Examination 2022 Topics Coverage & Assessment Format

Level/Stream: Sec 4 Express

Subject	Topics/ Chapters	Assessment Format (format, duration, total marks & dates of assessment)
English Language & 4NA (SBB Exp)	<p><u>Paper 1: Writing [35%]</u></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 (<i>e.g. article, informal letter, formal letter, 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. (<i>e.g. personal recount, expository, reflective, etc.</i>) <p><u>Paper 2: Comprehension [35%]</u></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><u>Paper 3: Listening [10%]</u></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><u>Paper 4: Oral Communication [20%]</u></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: approx 45 mins</p> <p>Paper 4 (30 m) Duration: approx 15 mins</p>

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Elementary Mathematics & 4NA (SBB Exp)	1. Numbers and Algebra Numbers and the four operations, Ratio and Proportion, Percentage, Rate and Speed, Algebraic Expressions and Formulae, Functions and Graphs, Equations and Inequalities, Set Language and Notation, Matrices, Problems in Real-World Contexts 2. Geometry and Measurement Angles, Triangles and Polygons, Congruence and Similarity, Properties of Circles, Pythagoras' Theorem and Trigonometry, Mensuration, Coordinate Geometry, Problems in Real-World Contexts 3. Statistics and Probability Data Handling, Data Analysis, Probability *Exclude Vectors in Two Dimensions. Textbook: Discovering Mathematics (Sec 1 - 4) Publisher: Star Publishing	Paper 1 (80 marks) Answer all questions Duration: 2 hr Paper 2 (100 marks) Answer all questions Duration: 2 hr 30 mins
Additional Mathematics	Chp1: Quadratic Functions Chp2: Equations & Inequalities Chp 3: Surds Chp 4: Polynomials and Partial Fractions Chp 5: Exponential and Logarithmic Functions & Equations Chp 6: Binomial Expansions Chp 7: Coordinate Geometry of Lines and Rectilinear Figures Chp8: Coordinate Geometry of Circles Chp 9: Trigonometric Functions, Graphs and Equations Chp 10: Trigonometric Identities and Formulae Chp 11: Differentiation Chp 12: Tangents, Normals and Rates of Change Chp 13: Maxima and Minima Chp 14: Further Differentiation Textbook: New Discovering Additional Mathematics (Book A and Book B)	Duration: 2 hr 15 min Total: 90 marks Answer all questions
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	<u>Paper 1 (40 marks)</u> 40 MCQ Duration: 1 hour <u>Paper 2 (80 marks)</u> Section A – Structured Questions Section B – 3 Free Response

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	Chapter 18: Reproduction in Humans Chapter 19: Heredity Chapter 20: Molecular Genetics Textbook: GCE 'O' Level Biology Matters	(2 Compulsory Qns include Data-based & Last Question Either/Or Option) Duration: 1 hour 45 min
Pure Chemistry	Chapter 1: Kinetic Particle Theory Chapter 2: Measurement & Experimental Techniques Chapter 3: Separation & Purification Chapter 4: Elements, Compounds & Mixtures Chapter 5: Atomic Structure Chapter 6: Ionic Bonding Chapter 7: Covalent Bonding and Metallic Bonding Chapter 8: Writing Chemical 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: The Periodic Table Chapter 17: Energy Changes Chapter 18: Speed of Reaction Chapter 19: Ammonia Chapter 20: The Atmosphere & Environment Chapter 21: An Introduction to Organic Chemistry Textbook: Chemistry Matters GCE 'O' Level	<u>Paper 1 (40 marks)</u> 40 MCQ Duration: 1 hour <u>Paper 2 (80 marks)</u> Section A – Structured Questions Section B – 3 Free Response (2 Compulsory Qns include Data-based & Last Question Either/Or Option) Duration: 1 hour 45 mins
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 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 Chapter 20: Magnetism Textbook: GCE 'O' Level Physics Matter	<u>Paper 1 (40 marks)</u> 40 MCQ Duration: 1 hour <u>Paper 2 (80 marks)</u> Section A – Structured Questions Section B – 3 Free Response (2 Compulsory Qns include Data-based & Last Question Either/Or Option) Duration: 1 hour 45 mins

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Combined Science (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: The Nervous System Chapter 12: The Human Eye Chapter 13: Hormones Chapter 14: Reproduction in Plants Chapter 15: Reproduction in Humans Chapter 16: Heredity Chapter 17: Molecular Genetics Textbook: Discover Biology GCE 'O' Level Matters	Paper 1 (40 marks) - MCQ (40 qns) Duration: 1 hour Paper 3 (65 marks) Section A: Structured questions (45 marks) Section B: Free Response questions (choose 2 out of 3 questions) (20 marks) Duration: 1 hour 15 mins
Combined Science (Chemistry) + 4NA SBB (NA)	Chapter 1: Kinetic Particle Theory Chapter 2: Measurement & Experimental Techniques Chapter 3: Separation & Purification Chapter 4: Elements, Compounds & Mixtures Chapter 5: Atomic Structure Chapter 6: Chemical Bonding Chapter 7: Writing Chemical Equations Chapter 8: The Mole Chapter 9: Chemical Calculations Chapter 10: Acids & Bases Chapter 11: Salt Chapter 12: Oxidation & Reduction Chapter 13: Metals Chapter 14: The Periodic Table Chapter 16: Speed of Reaction Chapter 17: The Atmosphere & Environment	Paper 1 (40 marks) - MCQ (20 Science (Chemistry) questions + 20 Science (Physics/Biology) questions) Duration: 1 hour Paper 3 (65 marks) Section A: Structured questions (45 marks) Section B: Free Response questions (choose 2 out of 3 questions) (20 marks) Duration: 1 hour 15 min
Combined Science (Physics) + 4NA SBB (NA)	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: D.C. Circuits Chapter 17: Practical Electricity	Paper 1 (40 marks) - MCQ (20 Science (Physics) qns + 20 Science (Chemistry) qns) Duration: 1 hour Paper 2 (65 marks) Section A: Structured questions (45 marks) Section B: Free Response questions (choose 2 out of 3 questions) (20 marks) Duration: 1 hour 15 min

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	Textbook: Discover Physics GCE 'O' Level Science	
Humanities (Social Studies)	<p>Content: Chapter 4: What is Diversity? Chapter 5: Why is there greater Diversity in Singapore now? Chapter 6: What are the experiences and effects of living in a Diverse society? Chapter 7: How can we respond to Diversity? Chapter 8: What does it mean to live in a Globalised World? Chapter 9: How do we respond to tensions arising from some economic impacts of globalisation? Chapter 10: How do we respond to tensions arising from some cultural impacts of globalisation?</p> <p>Source-Based Case Study & Structured-Response Question</p> <ul style="list-style-type: none"> • Inference • Comparison • Reliability • Evaluation 	<p>Duration: 1 hr 45 minutes Total: 50 marks</p> <p>Section A: SBCS (35 marks) Section B: SRQ (15 marks)</p>
Humanities (Geography Elective)	<p>Global Tourism</p> <ul style="list-style-type: none"> • Gateway 1: How does the nature of tourism vary from place to place? • Gateway 2: Has tourism become a global phenomenon? • Gateway 3: Developing tourism at what costs? <p>Weather and Climate</p> <ul style="list-style-type: none"> • Gateway 1: Why do different places experience different weather and climate? • Gateway 2: What is happening to Earth's climate? <p>Living with Tectonic Hazards</p> <ul style="list-style-type: none"> • Gateway 1: Why are some areas more prone to tectonic hazards? • Gateway 2: What landforms and associated tectonic phenomena are found at plate boundaries? • Gateway 3: How do people prepare for and respond to earthquakes? <p>Food Resources</p> <ul style="list-style-type: none"> • Gateway 1: How and why have food consumption patterns changed since the 1960s? (TB pg 90 - 117) 	<p>Duration: 1 hr 40 mins Total: 50 marks</p> <p>Answer one question from each section.</p> <p>Section A - Q1 OR Q2: Geographical investigation (13m)</p> <p>Section B - Q3 OR Q4: Structured questions (12m)</p> <p>Section C - Q5 OR Q6: Structured questions (25m)</p> <p>09 May 2022</p>
Humanities (History Elective)	<p><u>Unit 2</u> Chapter 6: Outbreak of World War II in the Asia Pacific Chapter 7: Japan's defeat in World War II</p> <p><u>Unit 3</u> Chapter 1: Reasons for the Cold War in Europe Chapter 2: The Korean War</p>	<p>Duration: 1 hr 40 mins Total: 50 marks</p> <p><u>Section A</u> Source-Based Case Study (30 marks)</p> <p><u>Section B</u> Structured-Essay Questions (20 marks)</p>

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		9 May 2021
Humanities (Literature Elective)	<p>Prose: Fahrenheit 451 [25 marks] Questions will require students to be familiar with: Hearth and the Salamander The Sieve and the Sand.</p> <p>Students may make reference to Burning Bright.</p> <p>Students will select <u>one</u> of the following:</p> <ol style="list-style-type: none"> 1. Passage Based Question 2. Essay Question 1 3. Essay Question 2 <p>Unseen Poetry [25 marks]</p> <p>Students will be required to analyse an unseen poem. Students will select <u>one</u> of the following:</p> <ol style="list-style-type: none"> 1. Question on a Singapore Poem. 2. Question on a non-Singapore poem. <p>For both prose and poetry sections, students will be required to craft their opinions in essay form.</p>	<p>Duration: 1 hr 40 mins Total: 50 marks</p>
Full Geography	<p>Paper 1</p> <p>Global Tourism</p> <ul style="list-style-type: none"> • Gateway 1: How does the nature of tourism vary from place to place? • Gateway 2: Has tourism become a global phenomenon? • Gateway 3: Developing tourism at what costs? <p>Coast</p> <ul style="list-style-type: none"> • Gateway 1: How and why are coastal environments different and dynamic? • Gateway 2: Why are coastal areas valuable? (Focus is on tropical coasts) • Gateway 3: How can we manage coastal areas in a sustainable manner? <p>Paper 2</p> <p>Weather and Climate</p> <ul style="list-style-type: none"> • Gateway 1: Why do different places experience different weather and climate? • Gateway 2: What is happening to Earth's climate? • Gateway 3: Is the weather becoming more extreme? <p>Living with Tectonic Hazards</p> <ul style="list-style-type: none"> • Gateway 1: Why are some areas more prone to tectonic hazards? 	<p><u>Paper 1</u> Duration: 1hr 40 mins Total: 50 marks Date: 10 May 2022</p> <p>Section A (Geographical investigation)</p> <ul style="list-style-type: none"> • Q1: Compulsory <p>Section B (Coast & Tourism)</p> <ul style="list-style-type: none"> • Structured questions (25m) <p>Answer one question from Section B.</p> <p>Section B - Q2 OR Q3:</p> <p><u>Paper 2</u> Duration: 1 hr 30 mins Total: 50 marks Date: 04 May 2022</p> <p>Answer one question from each section.</p>

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	<ul style="list-style-type: none"> ● Gateway 2: What landforms and associated tectonic phenomena are found at plate boundaries? ● Gateway 3: How do people prepare for and respond to earthquakes? <p>Food Resources</p> <ul style="list-style-type: none"> ● Gateway 1: How and why have food consumption patterns changed since the 1960s? ● Gateway 2: What are the trends and challenges in the production of food crops? ● Gateway 3: How can the problem of food shortage be addressed? <p>Health and Diseases</p> <ul style="list-style-type: none"> ● Gateway 1: What are the global patterns of health and diseases? 	<p>Section A (Plate tectonic & Weather & climate) - Q1 OR Q2:</p> <ul style="list-style-type: none"> ● Structured questions (25m) <p>Section B (Food Resource + Health & Diseases) - Q3 OR Q4:</p> <ul style="list-style-type: none"> ● Structured questions (25m)