

MONTFORT SECONDARY SCHOOL
SEC 3 END-OF-YEAR EXAMINATION 2023
INFOSHEET

Subject	Stream	Paper	Duration	Marks	Format	Topic(s)
English	E & NA	1	1 h 50 min	70	Writing - Section A: Editing (10m) - Section B: Situational Writing (30m) - Section C: Continuous Writing (30m)	Topics: - Youth and Values Situational writing - Report - Speech Continuous writing - Argumentative - Mixed Genre - Expository
		2	1 h 50 min	50	Comprehension Section A: Visual Texts (5m) Section B: Narrative text (20m) Section C: Non-narrative text & summary (25m)	
		3	45 min	30	Listening Comprehension	
	NT	1 e-exam	1 h 20 min	70	Writing Section A: Editing (10m) Section B: Situational Writing (30m) Section C: Continuous Writing (30m)	- Artificial Intelligence - Technology - Volunteering - Silver Generation - Social Media
		2	1 h 20 min	60	Language Use and Comprehension Section A: Language Use (20m) Section B: Reading Comprehension (40m)	Situational Writing - Informal Letter - Formal Letter - Speech Continuous Writing - Descriptive Writing - Recount
		3	45 min	20	Listening Comprehension	
Literature in English	E		1 h 30 min	50	Section A: Unseen Poetry (2 Choose 1) Section B: Essay Question (2 Choose 1)	Section A: One local poem, one international poem Section B: Both essay questions from The Crucible Acts 1-4
Additional Mathematics	E		2 h 15 min	90	10-14 questions of varying marks and lengths. Answer all questions	1) Quadratic Functions 2) Equations and Inequalities 3) Surds 4) Polynomials & Partial Fractions 5) Exponential & Logarithmic Functions 6) Binomial Theorem 7) Coordinate Geometry 8) Circles 9) Trigonometric Functions 10) Trigonometric Identities and Equations 11) Linear Law
	NA		1 h 45 min	70	13-15 questions of varying marks and lengths. Answer all questions	1) Quadratic Functions 2) Equations and Inequalities 3) Surds 4) Polynomials & Partial Fractions 5) Coordinate Geometry 6) Circles 7) Trigonometric Functions 8) Trigonometric Identities and Equations (Up to Chapter 11.2)
Mathematics	E	1	1 h 45 min	70	17-20 short-answer questions carrying 2-7 marks testing more on the fundamental skills and concepts. Answer all questions.	Sec 3 topics: 1) Quadratic and Fractional Equations 2) Simultaneous Linear Inequalities 3) Indices and Standard Form 4) Coordinate Geometry 5) Graphs of Functions and Graphical Solution 6) Further Trigonometry 7) Applications of Trigonometry 8) Arc Length, Sector Area and Radian Measure 9) Congruence and Similarity Tests 10) Area and Volume of Similar Figures and Solids 11) Circle Properties
		2	1 h 45 min	70	7-8 structured and long-answer questions of varying lengths. Last question may be a Problem on Real World Context. Answer all questions.	Lower Sec topics: 1) Numbers and their operations 2) Ratio and proportion 3) Percentage 4) Rate and speed 5) Algebraic expressions and formulae, equations 6) Angles, triangles and polygons 7) Pythagoras' Theorem 8) Mensuration 9) Data handling and analysis 10) Probability
	NA	1	1 h 30 min	50	There will be about 16 short answer questions. Candidates are required to answer all questions.	All Sec 3 Topics: 1) Chapter 1: Algebraic Expressions and Formulae 2) Chapter 2: Quadratic Equations and Graphs 3) Chapter 3: Indices and Standard Form 4) Chapter 4: Coordinate Geometry 5) Chapter 5: Graphs of Functions and Graphical Solution 6) Chapter 6: Trigonometry 7) Chapter 7: Further Trigonometry 8) Chapter 8: Congruence and Similarity
		2	1 hr 30 min	50	There will be about 8 questions of varying marks and lengths. The last question in this section will focus specifically on applying mathematics to a real-world scenario. Candidates are required to answer all questions.	Lower Sec Topics: 1) Numbers and their Operations 2) Pythagoras' Theorem 3) Area of Plane Figures 4) Rate and Speed

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Mathematics	NT	1	1 h 15 min	40	8-10 short questions (2-4 marks per question) followed by 2 long questions (5-8 marks) Answer all questions.	All Sec 3 topics: 1) Indices and standard form 2) Map scales 3) Algebraic expansion, fractions and expression for the nth term of a number sequence 4) Factorisation and formulas 5) Arc length and sector areas 6) Pyramids, cones and spheres 7) Cumulative frequency 8) Graph of linear equations 9) Simultaneous linear equations
		2	1 h 15 min	40	8-10 short questions (2-4 marks per question) followed by 2 long questions (5-8 marks) Answer all questions.	Lower Sec topics: 1) Number and Operations 2) Ratio 3) Percentage 4) Rate and speed 5) Mathematics in Practical Situations 6) Data analysis 7) Prisms and Cylinders
Computing	E	1	2 h	80	This paper tests knowledge, understanding and application of concepts and skills. The questions consist of a mixture of: • short answer questions • matching questions • cloze passage • structured questions This paper carries 70% of the total marks, and is marked out of 80 marks.	All Sec 3 theory topics: 1. Problem Statements 2. Problem Solving Techniques 3. Concept of a Program 4. Program Constructs 5. Debugging Techniques 6. Data Validation + Verification 7. Test Case 8. Program Errors and Translators 9. Program Flowchart and Flowchart Symbols 10. Dry Runs and Trace Tables 11. Logic Errors 12. Pseudo-code 13. Data Safety and Access 14. Social and Economic Impacts 15. Ethical Issues 16. Basic Hardware Components
		2	2 h 30 min	50	Three structured questions will be set based on the following topics: • Refinement of program • Debugging of program • Development of program Development of program will carry 24 marks. The remaining two questions average 13 marks. A quick reference for Python will be provided for candidates. Candidates will submit soft copies of the required work for marking. The allotted time includes time for saving the required work in the candidates' computer.	All Sec 3 practical topics: 1. Python Syntax, Constants and Variables 2. Arithmetic and Relational Operators, Functions and Boolean Operators 3. Selection Statements 4. Numeric Data Types + Mathematical Functions(Python) 5. String Data Type & Console Input/Output + String Operators, Functions, Common Problems 6. Loops + Common Loop Problem 7. Lists + Common List Problems 8. Debugging Techniques 9. Test Cases
Principles of Accounts	NA	1	2 hr	80	Answer all 4 structured questions.	Chapter 1: Introduction to Accounting Chapter 2: Accounting Information System Chapter 3: Elements of Financial Statements and the Accounting Equation Chapter 4: Double-entry Recording Chapter 5: Trial Balance, Financial Statements Chapter 6: Revenue and Other Income Chapter 7: Cost of Sales and Other Expenses Chapter 8: Cash Chapter 9: Inventory
Science(Chemistry)	E	1	1 h 20 min	65	Section A: MCQs 15 marks Section B: 40 marks Section C: 10 marks Total: 65 marks	Topic numbers are according to that of textbook: C1. Experimental Chemistry C2. Kinetic Particle Theory C3. Atomic Structure C4. Chemical Bonding C5. Structure & Properties of Materials C6. Chemical Formulae & Equations C8. Acids & Bases C9. Qualitative Analysis C11. The Periodic Table
	NA	3 & 4	1 h 15 min	50	Complete Paper 3 and 4 within 1 h 15 min. Paper 3: 20 MCQs: 20 marks Paper 4: 30 marks Section A: 22 marks Section B: 8 marks	Topic numbers are according to that of textbook: C1. Experimental Chemistry C2. Kinetic Particle Theory C3. Atomic Structure C4. Chemical Bonding C5. Structure & Properties of Materials C6. Chemical Formulae & Equations C8. Acids & Bases C11. The Periodic Table
Science(Physics)	E	1	1 h 20 min	65	Section A: MCQs 15 marks Section B: 40 marks Section C: 10 marks Total: 65 marks	Topic numbers are according to that of textbook: 1. Physical Quantities 2. Kinematics 3. Force and Pressure 4. Dynamics 5. Turning Effect of Forces 6. Energy 7. Kinetic Particles Model 8. Thermal Process 9. Waves Properties I Intro 10. Wave Properties II Sound 11. Electromagnetic Waves 12. Light

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SEC 3 END-OF-YEAR EXAMINATION 2023
INFOSHEET

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Science(Physics)	NA	1 & 2	1 h 15 min	50	Complete Paper 1 and 2 within 1 h 15 min. Paper 1: 20 MCQs: 20 marks Paper 2: 30 marks Section A: 22 marks Section B: 8 marks	Topic numbers are according to that of textbook: 1. Physical Quantities 2. Kinematics 3. Force and Pressure 4. Dynamics 6. Energy 7. Kinetic Particles Model 8. Thermal Process 9. Waves Properties I Intro 11. Electromagnetic Waves
Science(Biology)	E	1	1 h 20 min	65	Section A: MCQs 15 marks Section B: 40 marks Section C: 10 marks Total: 65 marks	C1 Cell Structure and Organisation C2 Movement of Substances C3 Biological Molecules C4 Enzymes C5 Nutrition In Humans C6 Transport In Humans C7 Respiration In Humans C8 Infectious Disease In Humans C9 Nutrition and Transport in Flowering Plants
Chemistry	E	1	45 min	30	Paper 1: 30 MCQs	C1 Experimental Chemistry C2 Kinetic Particle Theory C3 Atomic Structure C4 Chemical Bonding C5 Structure and Properties of Materials C6 Chemical Formulae and Equations C7 Mole Concept and Stoichiometry C8 Acids and Bases C9 Salts C11 Qualitative Analysis C12 Oxidation and Reduction C14 The Periodic Table
		2	1 h 30 min	70	Paper 2 Section A: 60 marks Paper 2 Section B: 10 marks	
Physics	E	1	45 min	30	Paper 1: 30 MCQs	Topic numbers are according to that of textbook: 1. Physical Quantities 2. Kinematics 3. Dynamics I Mass & Weight 4. Dynamics II Forces 5. Turning Effect of Forces 6. Pressure 7. Energy 8. Kinetic Particles Model 9. Thermal Process 10. Thermal Properties 11. Waves Properties I Intro 12. Wave Properties II Sound 13. Electromagnetic Waves 14. Light
		2	1 h 30 min	70	Paper 2 Section A: 60 marks Paper 2 Section B: 10 marks	
Biology	E	1	45 min	30	Paper 1: 30 MCQs	C1 Cell Structure and Organisation C2 Movement of Substances C3 Biological Molecules C4 Enzymes C5 Nutrition In Humans C6 Transport In Humans C7 Respiration In Humans C8 Excretion In Humans C10 The Nervous System and the Eye C11 Infectious Diseases in Humans C12 Nutrition and Transport in Flowering Plants
		2	1 h 30 min	70	Paper 2 Section A: 60 marks Paper 2 Section B: 10 marks	
Science (NT)	NT	1	1 h 15 min (e-exam)	50	e-Exam Section A : 30 MCQ (30 marks) and 2 - 5 selected response question (10 marks) Section B : 2 - 3 selected - response, short - answer and structured questions with VAI (10 marks)	C08 Staying Healthy C09 Digestion C10 Breathing C11 Blood Circulation C4 Effect of Force C1 Energy C3 Wave C2 Electricity
		2	1 h	50	Written short-answer and structured questions (50 marks)	
Chinese 1160 Malay 1148 Tamil 1157	E	1	2 h	60	1) Email writing 2) Composition	Self, School, Society
		2	1h 30 min	70	(1) Cloze passage & Editing (2) Comprehension (MCQ) (3) Comprehension (Open-ended questions)	
		3	30 min	20	Listening Comprehension Exam	
Higher Chinese 1116	E	1	2 h	80	1) Email writing 2) Composition	Self, School, Society
		2	1 h 45 min	80	(1) Cloze passage (2) Sentence Correction (3) Comprehension (MCQ) (4) Comprehension (Open-ended questions) (5) Summary	
Chinese 1196		1	2 h	60	1) Email writing 2) Composition	

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Malay 1197 Tamil Language 1198	NA	2	1h 30 min	60	(1) Cloze passage (2) Comprehension (MCQ) (3) Comprehension (Open-ended questions)	Self, School, Society
		3	30 min	20	Listening Comprehension Exam	
Basic Chinese 1196 Basic Malay 1197 Basic Tamil 1198	NT	1	70 min (e-exam)	35	e-Exam: (1) Response writing (2) Language and comprehension skills	Self, School, Society
		3	30 min	20	Listening Comprehension Exam	
Geography (Elective)	E	2	1 h 45 min	50	Section A (25marks): Structured questions Section B (25marks): Structured questions + 1 level descriptor question (essay)	Section A (25marks): Cluster 1: Geography in Everyday Life Section B (25marks): Cluster 3: Climate
	NA	2	1 h 45 min	50	Section A (25marks): Structured questions Section B (25marks): Structured questions + 1 level descriptor question (essay)	Section A (25marks): Cluster 1: Geography in Everyday Life Section B (25marks): Cluster 3: Climate
Geography (Pure)	E	1	1 h 45 min	50	Answer 2 compulsory questions Question 1 (25marks) Structured questions Question 2 (25marks): Structured questions + 1 level descriptor question (essay)	Answer 2 compulsory questions Question 1 (25marks) Cluster 1 (only topic 1.3): Geography in Everyday Life Question 2 (25marks): Cluster 2: Climate Topic 1
		2	1 h 45 min	50	Answer 2 compulsory questions Question 1 (25marks) Structured questions Question 2 (25marks): Structured questions + 1 level descriptor question (essay)	Answer 2 compulsory questions Question 1 (25marks) Cluster 1 (only topic 1.1 and 1.2): Geography in Everyday Life Question 2 (25marks): Cluster 2: Climate Topic 2 and 3
Social Studies	E		1h 45 min	50	Section A (35marks): Source-Based Questions Section B (15marks): Structured Response Question Qn 6 (Recommendation) Structured Response Question Qn 7 (Essay)	Section A: Inference, Purpose, Comparison, Reliability, Assertion Section B: Chapter 1-6
	NA		1h 45 min	50	Section A (35marks): Source-Based Questions Section B (15marks): Structured Response Question Qn 6 (Recommendation) Structured Response Question Qn 7 (Essay)	Section A: Inference, Purpose, Comparison, Reliability, Assertion Section B: Chapter 1-6
History (Elective)	E	2	1h 50 min	50	Section A: Source-based Questions (30m) - Answer all questions Section B: Structured-Essay Questions (20m) - Answer 2 out of 3 questions.	Chapter 1: The Paris Peace Conference and the League of Nations in the 1920s. Chapter 2: Case Study of Nazi Germany Chapter 3: Case Study of Militarist Japan Chapter 4: The Outbreak of WWII in Europe Chapter 5: The Outbreak of WWII in the Asia-Pacific
	NA	2	1h 50 min	50	Section A: Source-based Questions (30m) - Answer all questions Section B: Structured-Essay Questions (20m) - Answer 2 out of 3 questions.	Chapter 1: The Paris Peace Conference and the League of Nations in the 1920s. Chapter 2: Case Study of Nazi Germany Chapter 4: The Outbreak of WWII in Europe Chapter 5: The Outbreak of WWII in the Asia-Pacific
History (Pure)	E	1	1h 50 min	50	Section A: Source-based Questions (30m) - Answer all questions Section B: Structured-Essay Questions (20m) - Answer 2 out of 3 questions.	Paper 1: Chapter 1: Case Study of British Colonial Rule in Malaya Chapter 3: Case Study of French Colonial Rule in Vietnam Chapter 4: The Paris Peace Conference and the League of Nations in the 1920s.
		2	1h 50 min	50	Section A: Source-based Questions (30m) - Answer all questions Section B: Structured-Essay Questions (20m) - Answer 2 out of 3 questions.	Paper 2: Chapter 5: Case Study of Nazi Germany Chapter 6: Case Study of Militarist Japan Chapter 7: The Outbreak of WWII in Europe
Design & Technology	E	1	2 h	80	Written Paper	Design, Structures, Mechanism, Electronics
		2	10 weeks	60	Design Project	- Design - Sketching and rendering - Safe working with resistant material
	NA	1	1h 30 min	60	Written Paper	Design, Mechanism, Electronics
		2	10 weeks	60	Design Project	- Design - Sketching and rendering - Safe working with resistant material
	NT	1	1 h	50	Written Paper	Design, Mechanism, Electronics
		2	10 weeks	60	Design Project	- Design - Sketching and rendering - Safe working with resistant material
		1	1 h	60	P1: MCQ & SSQ [CPF, MEL, DOP, SST, IMC, AGM]	Computer Fundamentals (CPF) Media Elements (MFL)

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CPA	NT	2	1 h 30 min	70	P2: Practical [MEL, DOP, IMC]	media Elements (MEL) Document Processing (DOP) Spreadsheets (SST)
		3	1 h 30 min	70	P3: Practical [MEL, SST, AGM]	Interactive Multimedia Communications (IMC) Animation & Game Making (AGM)
Art	E	1	3 weeks	100	Coursework	Thematic drawing and painting
	NA	2	3 h	100	Drawing and painting task	Thematic drawing and painting

Students who are absent during the Exam must submit medical certificates to their Class Mentors. Students who are absent without valid reasons will not be awarded marks for that paper.