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Additional Mathematics

Textbooks:

- New syllabus Additional Mathematics By Prof Lee Peng Yee
- CIE past papers

Quarter One		
Unit title	Content	Chapter (Textbook)
Binomial expansion	<ul style="list-style-type: none"> • Theorem 	Chapter 11 New syllabus Additional Mathematics By Prof Lee Peng Yee
Permutation and combination	<ul style="list-style-type: none"> • Addition • Multiplication • theorem 	Chapter 10 New syllabus Additional Mathematics By Prof Lee Peng Yee
Indices, surds and logarithm	<ul style="list-style-type: none"> • Indices • Surds • Logarithm 	Chapter 3 New syllabus Additional Mathematics By Prof Lee Peng Yee

Quarter Two		
Unit title	Content	Chapter (Textbook)
Vectors In 2-D	<ul style="list-style-type: none"> • Parallel • Unit • Position • Column • relative 	Chapter 19 New syllabus Additional Mathematics By Prof Lee Peng Yee
Straight line graph	<ul style="list-style-type: none"> • $y = mx + c$ • Transform relationship 	CIE past Papers

Art & Design

Media: Pen, Pencil, Color pencil, Pastel, Acrylic color.

Quarter One		
Unit title	Content	Source
Still life	<ul style="list-style-type: none"> • Composition with a partially eaten cake (add a knife) • Fruits & Flowers composition 	Models, Books and Internet.
Landscape	<ul style="list-style-type: none"> • Roadside food market • View of backyard 	Internet, Magazines and Photographs.
Pencil Sketch	<ul style="list-style-type: none"> • Still life study 	Models, Arrangements of objects and Internet.
Design	<ul style="list-style-type: none"> • CD/DVD cover design 	Models, Arrangements of objects and Internet.

Quarter two		
Unit title	Content	Source
Still life	<ul style="list-style-type: none"> • Painting equipments composition • Fruits & vegetables composition 	Models, Books and Internet.
Landscape	<ul style="list-style-type: none"> • Mountain view • Inside view of a restaurant 	Internet, Magazines and Photographs.
Pencil Sketch	<ul style="list-style-type: none"> • Landscape study 	Photographs, practical view and Internet
Design	<ul style="list-style-type: none"> • Product packet design 	Models, Arrangements of objects and Internet.

Bangladesh Studies

Quarter One		
Unit title	Content	Chapter (Textbook)
Paper-2 Topic 9: Population structure and growth Paper-1 Topic-4 The British Period	<ul style="list-style-type: none"> • Population structure • Population growth • Population movements • The arrival of the British • Opposition to the British 	Bangladesh Studies-History, Culture, Environment and Development of Bangladesh Global Studies-class-X, Text Book Board, Bangladesh
Paper-2 Topic-10 Health and education	<ul style="list-style-type: none"> • Health care and delivery systems • Provision and delivery of education in Bangladesh 	Bangladesh Studies-History, Culture, Environment and Development of Bangladesh Global Studies-class-X, Text Book Board, Bangladesh
Revision on Paper-1 and paper-2	<ul style="list-style-type: none"> • CIE question paper solving 	Bangladesh Studies-History, Culture,

		Environment and Development of Bangladesh Global Studies-class-X, Text Book Board, Bangladesh
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Quarter Two		
Unit title	Content	Chapter (Textbook)
Revision on Paper-1 and paper-2	<ul style="list-style-type: none"> CIE question paper solving 	Bangladesh Studies-History, Culture, Environment and Development of Bangladesh Global Studies-class-X, Text Book Board, Bangladesh

Recommended reference books:

- Bangladesh Studies-History, Culture, Environment and Development of Bangladesh
- Global Studies-class-X, Text Book Board, Bangladesh

Biology

Quarter One		
Unit title	Content	Chapter (Textbook)
Development of organisms and continuity of life	<ul style="list-style-type: none"> • Asexual reproduction • Sexual reproduction in plants • Sexual reproduction in humans • Sexually transmitted diseases 	Text Book: Federal Biology Chapter:20(page:309-327) Chapter:21(page337-351)

Quarter Two		
Unit title	Content	Chapter (Textbook)
Inheritance	<ul style="list-style-type: none"> • Variation • Chromosomes and DNA • Monohybrid inheritance • Selection • Genetic engineering 	Text Book: Federal Biology Chapter: 22(page:357-380)

Recommended reference books:

- GCE biology; by DG. Mackean
- IGCSE Biology; by Jones

Business Studies

Textbook:

- IGCSE Business Studies Karen Borrington and peter Stimpson 3rd Edition

Quarter One		
Unit title	Content	Chapter
Marketing	<ul style="list-style-type: none"> • Marketing, competition and the customer • The marketing mix – product • The marketing mix – price • The marketing mix – place • The marketing mix – promotion • Marketing Strategy 	IGCSE Business Studies Karen Borrington and peter Stimpson 3 rd Edition
Finance information and financial decisions	<ul style="list-style-type: none"> • Business finance: needs and sources • Cash flow forecasting and working capital • Income Statement • Balance Sheet • Analysis of accounts 	IGCSE Business Studies Karen Borrington and peter Stimpson 3 rd Edition

Quarter Two		
Unit title	Content	Chapter
Understanding business activity	<ul style="list-style-type: none"> • Business Activity • Classification of businesses • Types of Business Organization • Business objectives and stakeholder objectives • Enterprise, business growth and size 	IGCSE Business Studies Karen Borrington and peter Stimpson 3 rd Edition
People in business	<ul style="list-style-type: none"> • Motivating workers • Organization Management • Recruitment, selection, training of workers • Internal and external recruitment 	IGCSE Business Studies Karen Borrington and peter Stimpson 3 rd Edition
External Influences on Business Activity	<ul style="list-style-type: none"> • Business and the international economy • Environmental and ethical issues • Government economic objectives and policies 	IGCSE Business Studies Karen Borrington and peter Stimpson 3 rd Edition

Chemistry

Textbooks:

- Federal Chemistry by Christopher N.Prescot
- Chemistry Matters by Tan Yin Toon and Chen Ling Kwong

Quarter One		
Unit title	Content	Chapter (Textbook)
Macromolecules	<ul style="list-style-type: none">• Polymer• Poly(ethene)• Nylon• Terylene• Protein• Carbohydrates	Unit 25.1, 25.2, 25.3, 25.4(Federal Chemistry) Unit 25.1, 25.2, 25.3, 25.4 (Chemistry matters)
Paper4 (Alternative to Practical)	<ul style="list-style-type: none">• CIE Question papers	CIE Question papers

Quarter Two		
Unit title	Content	Chapter (Textbook)
Revision of full syllabus		

Computer Science

Textbooks:

- Cambridge IGCSE Computer Studies course book by Chris Leadbetter, Stewart Wainwright and Alan Stinchcombe
- Revision Guide Cambridge IGCSE Computer Studies – Dave Watson and Helen William ((Reference book)

Quarter One		
Unit title	Content	Chapter (Textbook)
Hardware and software	<ul style="list-style-type: none"> • Computer architecture and the fetch-execute cycle 	Study materials Handouts
Communication and Internet technology	<ul style="list-style-type: none"> • Data transmission 	Study materials Handouts
Hardware and software	<ul style="list-style-type: none"> • Memory, storage devices and media 	Chapter-3 (Cambridge IGCSE Computer Studies course book) Chapter-12 (Revision Guide Cambridge IGCSE Computer Studies)
Hardware and software	<ul style="list-style-type: none"> • Operating systems 	Chapter-4 (Cambridge IGCSE Computer Studies course book) Chapter-2, 13 (Revision Guide Cambridge IGCSE Computer Studies)
Hardware and software	<ul style="list-style-type: none"> • High and low-level language and their translators 	Chapter-10 (Cambridge IGCSE Computer Studies course book) Chapter-8 (Revision Guide Cambridge IGCSE Computer Studies)
Programming	<ul style="list-style-type: none"> • Data structures; arrays 	Study materials Handouts
Algorithm design and problem solving	<ul style="list-style-type: none"> • Problem-solving and design 	Chapter-9 (Cambridge IGCSE Computer Studies course book) Chapter-7,8 (Revision Guide Cambridge IGCSE Computer Studies)
Algorithm design and problem solving	<ul style="list-style-type: none"> • Pseudocode and Flowchart 	Chapter-10 (Cambridge IGCSE Computer Studies course book) Chapter-7,8 (Revision Guide Cambridge IGCSE Computer Studies)
Programming	<ul style="list-style-type: none"> • Programming concepts 	Chapter-10 (Cambridge IGCSE Computer Studies course book) Chapter-8 (Revision Guide Cambridge IGCSE Computer Studies)

Quarter Two		
Unit title	Content	Chapter (Textbook)
Data representation	• Binary systems	Chapter-11 (Revision Guide Cambridge IGCSE Computer Studies)
	• Hexadecimal	
Communication and Internet technology	• Security aspects	Chapter-7, 8 (Cambridge IGCSE Computer Studies course book) Chapter-5 (Revision Guide Cambridge IGCSE Computer Studies)
Security	• Security	Chapter-8 (Cambridge IGCSE Computer Studies course book) Chapter-5 (Revision Guide Cambridge IGCSE Computer Studies)
	• Security	Study materials Handouts
	• Security	Chapter-8 (Cambridge IGCSE Computer Studies course book)
	• Security	Chapter-5 (Revision Guide Cambridge IGCSE Computer Studies) Study materials Handouts
Ethics	• Ethics	Study materials Handouts
Hardware and software	• Logic gates	Chapter-11 (Cambridge IGCSE Computer Studies course book) Chapter-9 (Revision Guide Cambridge IGCSE Computer Studies)
Data representation	• Data storage	Chapter-2, 7 (Cambridge IGCSE Computer Studies course book) Chapter-3 (Revision Guide Cambridge IGCSE Computer Studies) Study materials Handouts
Hardware and software	• Input devices	Chapter-3 (Cambridge IGCSE Computer Studies course book) Chapter-2,11,12 (Revision Guide Cambridge IGCSE Computer Studies)
	• Output devices	Chapter-3 (Cambridge IGCSE Computer Studies course book) Chapter-12,14 (Revision Guide Cambridge IGCSE Computer Studies)
Communication and Internet technologies	• Internet principles of operation	Chapter-7 (Cambridge IGCSE Computer Studies course book) Chapter-4 (Revision Guide Cambridge IGCSE Computer Studies)
Algorithm design and problem solving	• Problem-solving and design	Chapter-2, 9, 10 (Cambridge IGCSE Computer Studies course book) Chapter-7,8 (Revision Guide Cambridge IGCSE Computer Studies)
Algorithm design and problem solving	• Pseudocode and Flowchart	Chapter-9, 10 (Cambridge IGCSE Computer Studies course book) Chapter-7,8 (Revision Guide Cambridge IGCSE Computer Studies)
Databases	• Databases	Chapter-1 (Cambridge IGCSE Computer Studies course book) Chapter-10 (Revision Guide Cambridge IGCSE Computer Studies)

English

	Paper One: Writing		Paper Two: Reading	
	Section - 1	Section - 2	Section - 1	Section - 2
	Directed Writing	Creative Writing	Reading for Ideas (RFI)	Reading for Meaning (RFM)
Quarter One	Writing Letters, Reports	Writing Stories & Narrative Stories	1. Reading and Viewing – Past Paper: O/N, 2013, Paper a 2. Electronic Book Readers – Past Paper: O/N, 2013, Paper b	1. Miss Garnet and Harriet Joseph – Past Paper: O/N, 2013, Paper a 2. Miss Garnet has arrived in Venice – Past Paper: O/N, 2013, Paper b
Quarter Two	Writing Accounts, Speeches, Articles & all others as of Pre-Cam Exam	Writing Descriptive Essays and all others as of Pre-Cam Exam	1. Chess – Past Paper: M/J, 2014, Paper a 2. Cinnamon - Past Paper: M/J, 2014, Paper b	1. Alice - Past Paper: M/J, 2014, Paper a 2. Esme and Kitty – Past Paper: Past Paper: M/J, 2014, Paper b
Quarter Three	Writing Reports, Accounts & Speeches & all for Mock - 1 Exam	Writing Argumentative & Discursive Essays & all for MOCK - 1 Exam	1. Coffee – Past Paper: O/N, 2014, Paper a 2. Water' - Past Paper: O/N, 2014, Paper b	1. Locusts – Past Paper: O/N, 2014, Paper a 2. A Devoted Son - Past Paper: O/N, 2014, Paper b
Quarter Four	Writing Articles and Letters, Statements & all for Mock - 2 Exam	Writing Essays/Stories: One Word Topic & all for MOCK - 2 Exam	1. Gold – Past Paper: M/J, 2015 2. Railways - Past Paper: O/N, 2015	1. Griet – Past Paper: M/J, 2015 2. Animal Photographer - Past Paper: O/N, 2015

Economics

Textbook:

- Cambridge O Level Economics Student's Book (Cambridge International Examinations) Paperback – 17 Apr 2014 by Susan Grant (Author)

Quarter One		
Unit title	Content	Chapter (Textbook)
Developed and developing economies: trends in production, population and living standards	<ul style="list-style-type: none"> • Describe why some countries are classified as developed and others are not • Describe the difference between absolute and relative poverty • Recognise and discuss policies to alleviate poverty • Describe the factors that affect population growth (birth rate, death rate, fertility rate, net migration) and • Discuss reasons for the different rates of growth in different countries • Analyse the problems and consequences of these population changes for countries at different stages of development • Describe the effects of changing size and structure of population on an economy • Discuss differences in standards of living within countries and between countries, both developed and developing. 	<p>Reading: Cambridge O Level Economics Student's Book (Cambridge International Examinations) Paperback – 17 Apr 2014 by Susan Grant (Author)</p> <p>Units-42-46</p>

Quarter Two		
Unit title	Content	Chapter (Textbook)
International aspects	<ul style="list-style-type: none"> • Describe the benefits and disadvantages of specialisation at regional and national levels • Describe the structure of the current account of the balance of payments • Discuss the causes and consequences of current account deficits and surpluses • Define exchange rates • Discuss the causes and consequences of exchange rate fluctuations • Describe methods of trade protection • Discuss the merits of free trade and protection. 	<p>Reading: Cambridge O Level Economics Student's Book (Cambridge International Examinations) Paperback – 17 Apr 2014 by Susan Grant (Author)</p> <p>Units-47-52</p>

Mathematics D

Textbooks:

- New Syllabus Mathematics Book 3 By Prof Lee Peng Yee
- New Syllabus Mathematics Book 4 By Prof Lee Peng Yee
- General Mathematics By D Dayner
- CIE past Papers

Quarter One		
Unit title	Content	Chapter (Textbook)
Symmetry	<ul style="list-style-type: none"> • Line of symmetry • Rotational Symmetry 	General Mathematics By D Dayner (part 4- 4.3) CIE Past papers
Graphical representation of inequalities	<ul style="list-style-type: none"> • With one or two variables 	Revision exercise (New Syllabus Mathematics Book 4) CIE past papers
Coordinate Geometry	<ul style="list-style-type: none"> • Distance • Mid-point • Gradient • Equation 	Revision exercise (New Syllabus Mathematics Book 4) CIE past papers
Sequence	<ul style="list-style-type: none"> • Pattern • General equation 	Graph of function

Quarter Two		
Unit title	Content	Chapter (Textbook)
Congruent and similar triangles	<ul style="list-style-type: none"> • Congruency test • Similar triangles 	General Mathematics By D Dayner (part 4- 4.4) CIE Past papers
Graph in practical situation	<ul style="list-style-type: none"> • Distance-time • Speed – time 	Revision exercise (New Syllabus Mathematics Book 4) CIE past papers
Graphs of function	<ul style="list-style-type: none"> • Linear • Quadratic • Exponential • Straight line 	Revision exercise (New Syllabus Mathematics Book 4) CIE past papers
Straight line graph	<ul style="list-style-type: none"> • Gradient • Y-intercept 	Revision exercise (New Syllabus Mathematics Book 4) CIE past papers

Physics

Textbooks:

- Chew, C. et al. 2000. **GCE 'O' Level Physics (2 ed)**, Singapore; Marshal Cavendish Education
- David Sang, Graham Jones, **Cambridge O'level Physics**

Quarter One		
Unit title	Content	Chapter (Textbook)
Static Electricity	<ul style="list-style-type: none"> • Laws of electrostatics • Principles of electrostatics • Applications of electrostatics 	Unit 17 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 17.1-17.3 (<i>Cambridge O'level Physics</i>)
Current Electricity	<ul style="list-style-type: none"> • Current • Electromotive force • Potential difference • Resistance 	Unit 18 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 18.1-18.4 (<i>Cambridge O'level Physics</i>)
D.C. Circuits	<ul style="list-style-type: none"> • Current and potential difference in circuits • Series and parallel circuits 	Unit 19 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 19 (<i>Cambridge O'level Physics</i>)
Practical Electricity	<ul style="list-style-type: none"> • Uses of electricity • Dangers of electricity • Safe use of electricity in the home 	Unit 20 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 19 (<i>Cambridge O'level Physics</i>)
Magnetism and Electromagnetism	<ul style="list-style-type: none"> • Laws of magnetism • Magnetic properties of matter • Electromagnetism 	Unit 21 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 20 (<i>Cambridge O'level Physics</i>)
Electromagnetism	<ul style="list-style-type: none"> • Force on a current-carrying conductor • The d.c. motor 	Unit 22 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 20 (<i>Cambridge O'level Physics</i>)

Quarter Two		
Unit title	Content	Chapter (Textbook)
Electromagnetic Induction	<ul style="list-style-type: none"> • Principles of electromagnetic induction • The a.c. generator • The transformer 	Unit 23 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 21 (<i>Cambridge O'level Physics</i>)
Introductory Electronics	<ul style="list-style-type: none"> • Thermionic emission • Simple treatment of cathode-ray oscilloscope • Action and use of circuit components 	Unit 24 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 20 (<i>Cambridge O'level Physics</i>)
Electronic Systems	<ul style="list-style-type: none"> • Switching and logic circuits • Bistable and astable circuits 	Unit 24.6 (<i>GCE 'O' Level Physics (2 ed)</i>)
The Nuclear Atom	<ul style="list-style-type: none"> • Atomic model • Nucleus 	Unit 25 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 22 (<i>Cambridge O'level Physics</i>)
Radioactivity	<ul style="list-style-type: none"> • Detection of radioactivity • Characteristics of the three types of emission • Nuclear reactions • Half-life • Uses of radioactive isotopes including safety precautions 	Unit 25 (<i>GCE 'O' Level Physics (2 ed)</i>) Unit 23 (<i>Cambridge O'level Physics</i>)

Principles of Accounts

Textbook:

- Frank Wood, (12th edition) Business Accounting-1

Quarter One		
Unit title	Content	Chapter
Partnership a/c	<ul style="list-style-type: none">• Partnership• Goodwill	Chapter 41-42
Limited Company	<ul style="list-style-type: none">• Limited Company	Chapter 45
Single Entry	<ul style="list-style-type: none">• Single entry records	Chapter 30
Accounting Ratios	<ul style="list-style-type: none">• Accounting ratios	Chapter 47

Quarter Two		
Unit title	Content	Chapter
Revision, O Level question paper solving Analysis & evaluation, Tips & techniques, Time management	<ul style="list-style-type: none">• Past Papers	Revision, O Level question paper solving Analysis & evaluation, Tips & techniques, Time management