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Course Name	Mathematics
Standard	Cambridge O'Level/ IGCSE
Semester:	Spring 2021

INSTRUCTOR INFORMATION

1. Instructor Name:	Ehit Karim
2. Course description	The course is intended for students who are sitting for Cambridge IGCSE/O'Level Mathematics Examination and provides learners a solid foundation for further mathematical study.
3. Class Timing:	[redacted]
4. Instructor Phone:	[redacted]
5. Email Address:	karimehit@gmail.com

LEARNING RESOURCES AND TEXTBOOK(S)

Text Book(s)

Author	Title	Edition & Year	Publisher	ISBN
Ric Pimental Terry Wall	Cambridge IGCSE Mathematics Core and Extended	3rd Edition (2014)	Hodder Education, Year: 2014	978-1-4441-91707
Audrey Simpson	Cambridge O Level Mathematics Coursebook	2nd Edition (2016)	Cambridge University Press	978-1316506448

CLASS ROOM RULES OF CONDUCT

1. Cellular phones should be "**turned off**"/"**Silent mode"** during the class.
2. Be on time.

EXAMS, QUIZ, & MAKE UP POLICY

There will be several mock examinations after the syllabus content is covered. Participation in these tests is compulsory.

Attendance in the class is strongly recommended.

NOTE 1: The course plan is tentative and subject to change as the semester progresses; any change(s) will be communicated accordingly.

NOTE 2: Additional information will be posted on Google Classroom page.

Course Contents &Schedule

CLASS SCHEDULE FOR
IGCSE Mathematics

Note: The instructor reserves the right to make changes to the syllabus if necessary.

Topic	Week#	Lesson #	Topic	Reading Assignment
Number	1	1	Number and language Accuracy Calculations and order Integers, fractions, decimals and percentages	Chapter 1-4
		2	Further percentages Ratio and proportion Indices and standard form	Chapter 5-7
	2	3	Money and finance Time	Chapter 8 & 9
		4	Set notation and Venn diagrams	Chapter 10
Algebra and graphs	3	5	Algebraic representation and manipulation	Chapter 11
		6	Algebraic indices	Chapter 12
	4	7	Equations and inequalities	Chapter 13
		8	Linear programming	Chapter 14
	5	9	Sequences	Chapter 15
		10	Variation	Chapter 16
	6	11	Graphs in practical situations	Chapter 17
		12	Graphs of functions	Chapter 18
Geometry	7	13	Functions	Chapter 19
		14	Geometrical vocabulary Geometrical constructions and scale drawing	Chapter 20 & 21
	8	15	Similarity Symmetry	Chapter 22 & 23
		16	Angle properties	Chapter 24
Mensuration	9	17	Loci	Chapter 25
		18	Measures	Chapter 26
Coordinate geometry	10	19	Perimeter, area and volume	Chapter 27
		20	Straight-line graphs	Chapter 28
Trigonometry	11	21	Bearings Trigonometry	Chapter 29 & 30
		22	Further trigonometry	Chapter 31
Matrices and fransformations	12	23	Vectors	Chapter 32
		24	Matrices	Chapter 33

Probability	13	25	Transformations	Chapter 34
		26	Probability	Chapter 35
Statistics	14	27	Further probability	Chapter 36
		28	Mean, median, mode and range	Chapter 37
	15	29	Collecting and displaying data	Chapter 38
		30	Cumulative frequency	Chapter 39
	16	Question and Answer Session		
		Mock test – Question paper solving		
	17	Mock test – Question paper solving		
		Mock test – Question paper solving		
	18	Mock test – Question paper solving		
		Mock test – Question paper solving		
	19	Mock test – Question paper solving		
		Question and Answer Session		
	20	Mock test – Question paper solving		
		Mock test – Question paper solving		
	21	Mock test – Question paper solving		
		Question and Answer Session		
	22	Mock test – Question paper solving		
		Mock test – Question paper solving		
	23	Mock test – Question paper solving		
		Mock test – Question paper solving		

During Question and Answer Session, students can discuss with the instructor about their doubts regarding any specific topic, exercise or exam.