

Tuen Mun Catholic Secondary School  
Mathematics Education

F.1 Mathematics

Textbooks: MathSmart Book 1A, 1B  
Educational Publishing House Ltd

Chapters	Topics
1	Basic Computation
2	Directed Numbers
3	Introduction to Algebra
4	Linear Equations in One Unknown
5	Approximation and Numerical Estimation
6	Manipulations of Polynomials
7	Percentages (I)
8	Angles Related to Straight Lines and Triangles
9	Area and Volume (I)
10	Introduction to coordinates
11	Congruent Triangles
12	Introduction to Statistics and Statistical Charts

F.2 Mathematics

Textbooks: MathSmart Book 2A, 2B  
Educational Publishing House Ltd

Chapters	Topics
1	Rates, Ratios and Proportions
2	Similar Triangles
3	Identities
4	Factorization of Polynomials
5	Algebraic Fractions and Formulae
6	Errors in Measurement
7	More about Statistical Charts
8	Linear Equations in Two Unknowns
9	Pythagoras' Theorem and Irrational Numbers
10	Angles Related to Special Triangles and Polygons
11	Introduction to Trigonometry
12	Areas and Volumes (II)

### F.3 Mathematics

Textbooks: MathSmart Book 3A, 3B

Educational Publishing House Ltd

Chapters	Topics
1	Linear Inequalities in One Unknown
2	Laws of Integral Indices
3	Percentages (II)
4	Quadrilaterals
5	More about Geometric Proofs
6	Centre of Triangles
7	Areas and Volumes (III)
8	Applications of Trigonometry
9	Coordinate Geometry of Straight Lines
10	Measures of Central Tendency
11	Introduction to Probability

#### F.4 Mathematics

Textbooks: Mathematics in Focus Book A, Book B and Book C  
Educational Publishing House Ltd

Chapters	Topics
1	Quadratic Equations in One Unknown (I)
2	Quadratic Equations in One Unknown (I)
3	Functions and Graphs
4	More about Polynomials
5	Exponential and Logarithmic Functions
6	Trigonometry (I)
7	Trigonometry (II)
8	More about Equations
9	Variations

#### F.5 Mathematics

Textbooks: Mathematics in Focus Book C, Book D and Book E  
Educational Publishing House Ltd

Chapters	Topics
10	Basic Properties of Circles (I)
11	Basic Properties of Circles (II)
12	Arithmetic and Geometric Sequences
13	Summation of Arithmetic and Geometric Sequences
14	Locus
15	Equations of Straight Lines and Circles
16	Inequalities
17	Linear Programming
18	More about Graphs of Functions
21	Measures of Dispersion
22	Uses and Abuses of Statistics

#### F.6 Mathematics

Textbooks: Mathematics in Focus Book E  
Educational Publishing House Ltd

Chapters	Topics
19	Permutation and Combination
20	Probability