

SING YIN SECONDARY SCHOOL
Syllabus for F.6 Mathematics (2016-2017)
Extended Part – Module 2

Textbook : New Progress in Senior Mathematics – Module 2 Book 1 & Book 2
W. M. Chu & H. M. Chan

HK Educational Publishing Co.

Students are expected to develop the following attitudes:

- to love logical thinking
- to accept careful work as important
- to accept challenging work.

11	Matrices and Determinants	16	<ul style="list-style-type: none"> • To understand the concepts, operations and properties of matrices. • To recognise the concepts and properties of determinants of order 2 and order 3. • Understand the concepts and properties of inverse matrices of order 2 and order 3.
12	System of Linear Equations	8	<ul style="list-style-type: none"> • To solve the systems of linear equations of order 2 and order 3 by Cramer's rule, inverse matrices and Gaussian elimination.
13	Vectors in Two-dimensional Space	14	<ul style="list-style-type: none"> • To understand the concepts of vectors and scalars. • To understand the operations and properties of vectors. • To understand the representation of vector in the rectangular coordinate system. • To understand the definition and properties of the scalar product of vectors. • To understand the applications of vectors.
14	Vectors in Three-dimensional Space	11	<ul style="list-style-type: none"> • To understand the operations and properties of vectors in \mathbf{R}^3. • To understand the definition and properties of the vector products in \mathbf{R}^3. • To understand the definition and properties of scalar triple product in \mathbf{R}^3. • To understand the applications of vectors.
Revision			<ul style="list-style-type: none"> • Sing Yin Past Papers • HKCEE Past Papers • HKALE Past Papers • HKDSE Past Papers

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Signature of Teacher In Charge : _____

Checked by : _____