

Newton Chinese Language School
Singapore Math
9th Grade

Course Name	新加坡数学九年级, Singapore Math 9 th Grade
Class Name	新加坡数学九年级甲班, Singapore Math 9 th Grade
Course Length	1 year (32 sessions of 80 minutes each)
Pre-requisite	Completed NCLS Singapore Math 8 th Grade or Equivalent
Text Book	<i>Singapore Math, discovering Mathematics 4A and 4B, by Chow Wai Keung, ISBN: 981-4176-72-9 and 981-4176-73-7 (discontinued)</i> <i>Other material added: Complex Numbers, Logarithms, Conic Functions.</i>
Work Book	Singapore Math, discovering Mathematics 4 Workbook, by Chow Wai Keung, ISBN: 978-981-4249-29-4 (discontinued)

Math 9 Teaching Plan

Lesson 1	2.1 Probabilities of Simple Combined Events 2.2 Mutually Exclusive Events
Lesson 2	2.3 Independent Events 2.4 Further Probabilities
Lesson 3	X1.1 Arithmetic of Complex Numbers X1.2 The Complex Plane
Lesson 4	X1.3 Real and Imaginary Parts

	X1.4 Graphing in the Complex Plane
Lesson 5	1.1 Standard Deviation for Ungrouped Data 1.2 Standard Deviation for Grouped Data
Lesson 6	1.3 Comparison of Two Data Sets
Lesson 7	Review
Lesson 8	Midterm Exam
Lesson 9	3.1 Definition of a Matrix 3.2 Addition and Subtraction of Matrices
Lesson 10	3.3 Multiplication of A Matrix and a Scalar
Lesson 11	3.4 Multiplication of Matrices
Lesson 12	Review of Set Language
Lesson 13	Review of Angles, Polygons, Congruence and Similarity
Lesson 14	Review of Properties of Circles
Lesson 15	Review
Lesson 16	Final Exam
Spring Semester	
Lesson 1	4.1 Introduction to Vectors 4.2 Operations on Vectors
Lesson 2	4.3 Position Vectors 4.4 Vectors on the Coordinate Plane
Lesson 3	4.5 Applications of Vectors in Geometry
Lesson 4	6.2 Distance-Time Graphs
Lesson 5	6.2 Speed-Time Graphs
Lesson 6	Review of Measurement
Lesson 7	Review
Lesson 8	Midterm Exam
Lesson 9	X4.1 Exponential Functions X4.2 The Natural Exponential Function
Lesson 10	X4.3 Logarithmic Functions X4.4 Laws of Logarithms
Lesson 11	X4.5 Exponential and Logarithmic Equations
Lesson 12	X11.1 Conic Sections: Parabolas
Lesson 13	X11.2 Conic Sections: Ellipses
Lesson 14	X11.3 Conic Sections: Hyperbolas

Lesson 15	Review
Lesson 16	Final Exam