

Shatin Tsung Tsin Secondary School
S.1 Mathematics Teaching Schedule (2011 – 12)

Cycle	Date	Topic
1	5/9~12/9	Classroom rules Arithmetic operations (+ , × , ÷) in English Calculation of fractions Students' Resource Pack (Chapter 1)
2	14/9~21/9	Chapter 1 Directed Number 1.1 Positive and negative numbers 1.2 Directed numbers on the number line 1.3 Addition and subtraction of directed numbers A. Addition or subtracting positive numbers B. Addition or subtraction negative numbers 1.4 Mixed addition and subtraction of directed numbers 1.5 Multiplication and division of directed numbers A. Multiplication of directed numbers B. Division of directed numbers
3	22/9~29/9	Revision Exercise & checking activity book Chapter 2 Basic Algebra 2.1 Understanding algebra 2.2 Formulae and substitution 2.3 Sequences
4	3/10~11/10	2.4 The nth term of a sequence Revision Exercise & checking activity book Test (Chp 1+ summer exercises) Chapter 4 Linear equations in one unknown 4.1 Concept of equation
5	12/10~19/10	4.2 Techniques of solving equation A. Combining unknowns B. Removing brackets C. Technique of eliminating denominators 4.3 Solving problems by using linear equations in one unknown A. Setting up linear equations in one unknown B. Solving problems by using equations
6	20/10~27/10	Revision Exercise & checking activity book Test (Chp 2 + 4)
7	28/10~7/11	Chapter 7 Algebraic expressions and polynomials 7.1 Operations of powers A. Power B. Operation of $a^m \times a^n$ C. Operations of $(a^m)^n$ and $(ab)^n$ D. Operation of $a^m \div a^n$ 7.2 concept of polynomials A. Terms of algebraic expressions B. Monomial C. Polynomials 7.3 Arrangement of a polynomial A. Grouping like terms B. Arranging a polynomial in order
8	8/11~ 18/11	7.4 Addition and subtraction of polynomials 7.5 Multiplication of polynomials A. Distributive laws of multiplication B. The product of binomial and polynomial Revision Exercise & checking activity book
9	21/11~28/11	Test (Chp 7) Chapter 3 Basic Geometry 3.1 Points and lines A. Points B. Lines 3.2 Angles A. Naming angles B. Unit of angles C. Types of angles 3.3 The use of protractor A. Measuring angles 3.4 Triangles A. Types of triangles B. Angle sum of a triangle
10	29/11~2/12	3.5 Polygons 3.6 Solids A. Basic concepts of solids B. Cross- sections of a solid C. Polyhedra D. Regular polyhedra E. Euler's formula
		First examination

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12	3/1~12/1	First exam checking Chapter 13 Angles in rectilinear figures 13.1 Adjacent angles at a point and vertically opposite angles A. Adjacent angles B. Angles at points C. Vertically opposite angles
13	13/1~20/1	13.2 Corresponding angles, alternate angles, interior angles on the same side A. Transversal and angles produced by it B. Angles associated with parallel lines 13.3 Angles of triangles A. Sum of the interior angles of a triangle B. Exterior angles of triangles C. Base angles of isosceles triangles
14	1/2~9/2	Chapter 5 Percentages 5.1 Revision on Percentage A. Meaning of percentages B. Arithmetic operations with percentages 5.2 Simple problems on percentage A. Finding percentages B. Finding a part C. Finding the whole
15	10/2~17/2	5.3 Percentage Increase and Decrease A. Percentage increase B. Percentage decrease 5.4 Profit and loss A. Profit B. Loss
16	20/2~27/2	5.5 Discount Revision Exercise & checking activity book Test (Chp 5 & 13) Chapter 6 Statistics in daily life 6.1 Statistical work 6.2 Collection and organization of data A. Collection of data B. Organizaton of data
17	28/2~6/3	6.3 Presentation and analysis of data A. Pictograms B. Bar charts C. Compound bar charts D. Broken-line graphs E. Pie charts F. Stem-and leaf diagram Revision Exercise & checking activity book
18	7/3~14/3	Chapter 10 Statistical graphs 10.1 Types of data 10.2 Grouping of data A. Frequency distribution B. Concepts about classes 10.3 Histograms
19	15/3~22/3	10.4 Scatter diagrams A. Introduction to scatter diagram B. Relation between data 10.5 Choosing appropriate statistical graph Revision Exercise & checking activity book Chapter 12 Ratio and rate 12.3 Rate
20	23/3~28/3	12.1 Ratio
		UT
21	17/4~23/4	UT paper checking 12.2 Ratios of three like quantities 12.4 Scale plan
22	24/4~2/5	Revision Exercise & checking activity book Chapter 0 The art of Mathematical thinking
23	3/5~10/5	Chapter 9 Introduction to coordinates 9.1 Ordered pairs 9.2 Rectangular coordinates system A. Rectangular coordinate plane B. Drawing a rectangular plane on a graph paper 9.3 Distances 9.4 Areas of polygons 9.5 Polar coordinates system 9.6 Transformations on a rectangular coordinate plane A. Translation B. Reflection
24	11/5~21/5	C. Rotation

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		Test (Chp 9 & 12) Chapter 8 symmetry and transformation 8.1 Symmetry A. Reflectional symmetry B. Rotational symmetry
25	22/5~29/5	8.2 Transformation D. Enlargement/ contraction Chapter 11 Linear equations in two unknowns 11.1 Linear equations in two unknowns 11.2 Graphs of linear equations in two unknowns 11.3 Points on the graph of linear equations in two unknowns
26	30/5~8/6	Revision Exercise & checking activity book 13.4 Simple proofs in geometry B. Deduction C. Proofs related to straight lines and angles D. Determination of parallel lines E. Proofs related to triangles Exam revision