

Dimensions Math 8A			
Chapter	Chapter Title	Lesson	Lesson Title
1	Exponents and Scientific Notation	1	Positive Exponents and the Laws of Exponents
		2	Zero and Negative Integral Exponents
		3	Fractional Exponents
		3A	n th root of a Positive Number
		3B	Fractional Exponents
		4	Comparing Exponents
		5	Scientific Notation
		5A	Representation of Very Small or Very Large Numbers
		5B	Computation
		6	Rounding Numbers to a Specified Number of Significant Figures
		7	Estimations and Accuracy of Calculators
		7A	Estimations
		7B	Estimation and Irrational Numbers
		7C	Accuracy in Calculators
2	Linear Equations in Two Variables	1	Linear Equations in Two Variables
		1A	Review of Linear Equations in One Variable
		1B	Meaning of Linear Equations in Two Variables
		2	Solving Simultaneous Linear Equations in Two Variables using the Graphical Method
		3	Solving Simultaneous Linear Equations in Two Variables using the Substitution Method
		4	Solving Simultaneous Linear Equations in Two Variables using the Elimination Method
3	Expansion and Factorization of Algebraic Expressions	5	Solving Problems using Simultaneous Equations
		1	Expansion of the Products of Algebraic Expressions
		1A	Product of Single Terms
		1B	Product of Two Expressions
		2	Special Products of Algebraic Expressions
4	Quadratic Factorization and Equations	3	Factorization by using Special Products of Algebraic Expressions
		1	Factorization of $ax^2 + bx + c$
		1A	$x^2 + bx + c$
		1B	$ax^2 + bx + c$
		2	Solving Quadratic Equations by Factorization
5	Simple Algebraic Fractions	3	Problem Solving Involving Quadratic Equations
		1	Simplifying Simple Algebraic Fractions
		2	Multiplication and Division of Algebraic Fractions
		3	Addition and Subtraction of Algebraic Fractions
		4	Fractional Equations
		4A	Solving Equations Involving Algebraic Fractions
		4B	Problem Solving Involving Fractional Equations
		5	More about Formulas
		5A	Finding the Value of an Unknown Quantity in a Formula
6	Congruence and Similarity	5B	Changing the Subject of a Formula
		1	Congruence and Reflections
		1A	Congruent Figures
		1B	Reflections
		2	Translations, Rotations, and Combining Transformations
		2A	Translations
		2B	Rotations
		2C	Combining Transformations
		3	Similarity
		4	Enlargements and Similarity
		4A	Scale Factors
		4B	Enlargements

Chapter	Chapter Title	Lesson	Lesson Title
7	Parallel Lines and Angles in Triangles and Polygons	1	Angles formed by Parallel Lines and Transversals
		1A	Angle Properties
		1B	Parallel Lines and Transversals
		2	Interior and Exterior Angles of a Triangle
		2A	Angle Sum of a Triangle
		2B	Exterior Angle of a Triangle
		3	Angle Properties of Special Quadrilaterals
		4	Polygons
		4A	Types of Polygons
		4B	Sum of Interior Angles of a Polygon
		4C	Sum of Exterior Angles of a Polygon

Dimensions Math 8B			
8	Graphs of Linear and Quadratic Functions	1	Linear Function
		1A	Idea of Functions
		1B	Linear Functions
		1C	Rate of Change
		2	Graphs of Quadratic Functions
		2A	Graph of $y = ax^2 + bx + c$, where $a > 0$
		2B	Graph of $y = ax^2 + bx + c$, where $a < 0$
9	Graphs in Practical Situations	1	Tables, Charts and Graphs
		2	Distance-Time Graphs
10	Pythagorean Theorem	1	Pythagorean Theorem
		2	The Converse of Pythagorean Theorem
		2A	Definition
		2B	Determination of Right-Angled Triangles
		3	Applications of Pythagoras Theorem
11	Coordinate Geometry	1	Distance Between Two Points
		2	Slope of a Straight Line
		3	Equation of a Straight Line
12	Mensuration of Pyramids, Cylinders, Cones and Spheres	1	Pyramids
		1A	Introducing Pyramids
		1B	Nets and Surface Areas of Pyramids
		1C	Volumes of Pyramids
		2	Cylinders
		2A	Volume and Surface Area of a Cylinder
		3	Cones
		3A	Introducing Cones
		3B	Net and Surface Area of a Cone
		3C	Volume of a Cone
		4	Spheres
		4A	Introducing Spheres
		4B	Volume of a Sphere
		4C	Surface Area of a Sphere
13	Data Analysis	1	Organizing Data in Frequency Tables
		2	Bar Graphs and Histograms
		2A	Bar Graphs and Histograms
		2B	Histograms
		3	Line Graphs and Scatter Plots
		3A	Line Graphs
		3B	Scatter Plots

Chapter	Chapter Title	Lesson	Lesson Title
14	More About Quadratic Equations	1	Solving Quadratic Equations by Factorization
		2	Completing the Square Method
		3	Quadratic Formula
		4	Graphical Method
		5	Applications of Quadratic Equations