

**MATRIX FOR COMPARING
MATHEMATICS COURSES ACROSS
THE CURRICULUM
(2006)**

UNITS

COURSE LEVEL	E01	E02	E03	E04	E05	E06	E07	E08	E09	E10	S01	S02
5-YEAR-OLD	Classification, Positions, Patterns	Sets, Data, Graphing	Numbers 0 - 5	Geometry, Fractions, Probability	Numbers to 12	Time and Money	Measurements	Addition	Subtraction	Greater Numbers	Real-Life Application	
6-YEAR-OLD	Number Concepts, Operations, Graphing	Add. And Subtr. Facts Through 10	Geometry and Fractions	Numbers Through 100	Time	Money	Add. And Subtr. Facts Through 12	Measurement	2-Digit Addition	2-Digit Subtraction	Into Skills for Multiplication	S02 Math in Sport S03 Real-Life Activity
7-YEAR-OLD	Number Concepts, Addition, Subtr., Graphing and Prob.	Numbers to 100, Place Value, Number Patterns	Geometry and Fractions	Adding 2-Digits	Subtracting 2-Digit Numbers	Time & Numbers Through 1000	Money	Measurement	Mult. And Division	Adding and Subtr. 3-Digit Numbers	Math in Sport	Real-Life Activity
8-YEAR-OLD	Place Value and Money	Addition	Subtraction	Data and Probability	Multiplication Facts & concepts	Division Facts & concepts	Time and Measurement	Geometry & Measurement	Fractions and Decimals	Mult. and Division by 1-Digit Numbers	Cooperative Project	
9-YEAR-OLD	Place Value and Money	Operations	Algebraic Reasoning	Multiplication w/1 & 2 digit multiplier	Division w/ 1 digit divisor	Number Theory Averages & Division w/ 2 digit divisor	Measuring & Data/Graphing	Geometry & Measurement of Perimeter Area & Volume	Fractions	Decimals	Probability/Coordinate Graphing of + & - Integers	
10-YEAR-OLD	Place Value / Addition and Subtr.	Multiplication	Division by 1 and 2 Digit Numbers	Graph Data / Data and Statistics	# Theory and Frac Concepts / Add and Subtract Decimals	Addition, Subtr., Mult., Division of Fractions	Mult. and Division of Decimals	Plane Fig., Geo. Concept / Perimeter, Area, and Circumf.	Solid Figures, Surface Area, Volume / Units of Measure	Ratio, Proportion, Percent, and Probab.	Equations and Functions	S02 Integers S03 Coordinate Graphing
11-YEAR-OLD	Number Sense and Statistics	Decimal Addition and Subtraction	Decimal Multiplication and Division	Number patterns and Fractions	Addition and Subtraction of Fractions	Multiplication and Division of Fractions	Ratio, Proportion, and Percent	Geometric Figures	Geometry and Measurement	Integers	Equations and Functions	Probability and statistics

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12 YEAR OLD	Algebraic Thinking and Decimal Operations	Data and Statistics	Number Patterns, Fractions, and Probability	Fraction Operations and More Probability	Integers	Equations, Inequalities, and Functions	Ratios and Proportions	Percents	Geometric Figures	Area, Surface Area, and Volume				
	These selective units can be offered to advanced students who choose to complete Pre-algebra preparations in order to move directly into Algebra 1 instead of Mathematics-13								S01 Equations & Integers	S02 Two-step Equations and Integers	S03 Multi-step Equations and Inequalities	S04 Ratio, Proportion, and Percent	S05 Linear Equations and Graphs	S06 Polynomials and Functions
13 YEAR OLD	Equations and Integers	Two Step Equations and Inequalities	Factors, Fractions and Exponents	Multiplying/ Dividing Fractions and Decimals	Multi-step Equations and Inequalities	Ratios, Proportions and Percent	Angles, Polygons, Irrational Roots and the Pythagorean Theorem	Measurement, Area and Volume	Graphing Linear Equations	Probability	Polynomials & Functions	Applications of Probability		
ALGEBRA 1	Rules and Tools of Algebra	Real Numbers	Solving Linear Equations	Graphing Linear Equations	Writing Linear Equations	Linear Systems	Linear Inequalities	Exponents	Quadratic Equations	Polynomials & Factoring	Using Data & Models	Rational Equations & Functions	Radicals	
GEOMETRY	Overview Terms Inductive Reasoning	Deductive Reasoning Proofs	Line Relations Parallel Perpendicular	Congruent Triangles SSS,...	Triangle Segments Indirect Proof Inequality	Polygons	Similarity Proportions	Trigonometry, Pythagoras + Area of Polygon	Circles Parts of Circles	Polyhedra	Transformations	Geometry Portfolio	Geometry Project	
ADVANCED MATHEMATICS I (ALGEBRA 2)	Linear Equations and Inequalities	Systems of Equations and Matrices	Quadratic Functions	Polynomials and Polynomial Functions	Powers, Roots, and Radicals	Exponential and Log. Functions	Rational Equations and Functions	Quadratic Relations and Conic Sections	Trigonometric Ratios and Functions	Probability and Stats	Modeling	Sequences & Series	Trigonometric Identities	

