

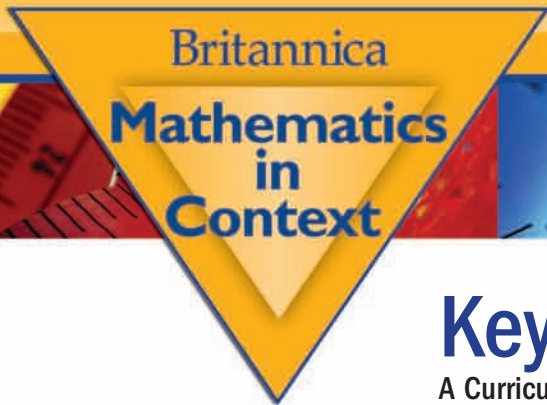
Key to Success: Level 1/Grade 6

A Curriculum for Summer School, Extended Time Programs, and Exploration Programs

LESSON	STRAND	MATHEMATICAL CONTENT
1	Data Analysis and Probability	<ul style="list-style-type: none"> • Bar graphs • Picture graphs
2	Number	<ul style="list-style-type: none"> • Comparing ratios • Writing equivalent ratios
3	Number	<ul style="list-style-type: none"> • Bar models for fractions • Fractional parts • Adding fractions with same denominator
4	Number	<ul style="list-style-type: none"> • Fractions, decimals, whole numbers on the number line • Map reading
5	Number	<ul style="list-style-type: none"> • Double line number • Comparing measures • Coordinate grids
6	Algebra	<ul style="list-style-type: none"> • Organizing computations • Decimal computations • Money and making change
7	Algebra	<ul style="list-style-type: none"> • Multiplication and division with decimals • Writing formulas
8	Data Analysis and Probability	<ul style="list-style-type: none"> • Pie charts • Bar charts • Fraction and percent equivalences
9	Number	<ul style="list-style-type: none"> • Comparing fractions
10	Number	<ul style="list-style-type: none"> • Benchmark fractions • Decimal, fraction percent equivalences
11	Number	<ul style="list-style-type: none"> • Ratios, fractions, decimals, and percents
12	Geometry and Measurement	<ul style="list-style-type: none"> • Coordinate grids • Direction • Angle measure • Perpendicular and parallel lines
13	Geometry and Measurement	<ul style="list-style-type: none"> • Navigational headings • Angle turns
14	Algebra	<ul style="list-style-type: none"> • Combination of prices • Underpinnings of slope
15	Geometry and Measurement	<ul style="list-style-type: none"> • Area of irregular figures • Counting areas on grids
16	Geometry and Measurement	<ul style="list-style-type: none"> • Area of quadrilaterals and triangles • Counting area • Deriving formulas for area
17	Number	<ul style="list-style-type: none"> • Finding prices using weight and measure on a scale • Double number line • Multiplying whole numbers by decimals
18	Number	<ul style="list-style-type: none"> • Percent: markups and discounts
19	Number	<ul style="list-style-type: none"> • Percent bars • Discounts and profits • Decimal fraction equivalences
20	Data Analysis and Probability	<ul style="list-style-type: none"> • 0 and 1 probabilities • Finding chance of events

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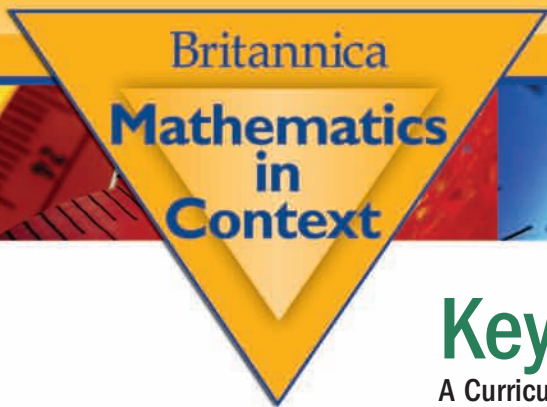
Key to Success: Level 2/Grade 7

A Curriculum for Summer School, Extended Time Programs, and Exploration Programs

LESSON	STRAND	MATHEMATICAL CONTENT
1	Algebra	<ul style="list-style-type: none"> • Making change • Writing formulas
2	Algebra	<ul style="list-style-type: none"> • Interpret relationships using formulas • Tables and graphs
3	Data Analysis and Probability	<ul style="list-style-type: none"> • Simple chance • Repeated trials • Visual models
4	Number	<ul style="list-style-type: none"> • Fractions, pie charts, bar charts
5	Number	<ul style="list-style-type: none"> • Compare fractions, decimals, and percents • Add and subtract fractions
6	Number	<ul style="list-style-type: none"> • Compare fractions • Relate fractions to decimals
7	Algebra	<ul style="list-style-type: none"> • Use pictures, words, and symbols to solve problems • Informal algebra
8	Algebra	<ul style="list-style-type: none"> • Combination charts • Visual patterns leading to formulas
9	Geometry and Measurement	<ul style="list-style-type: none"> • Area of irregular figures • Strategies for finding area • Linear measurement
10	Geometry and Measurement	<ul style="list-style-type: none"> • Perimeter and area of geometric figures • Enlargement and reduction • Relationships of linear and area measure
11	Geometry and Measurement	<ul style="list-style-type: none"> • Surface area and volume • Geometric models • Estimation and computation of area and volume
12	Number	<ul style="list-style-type: none"> • Relationships of fractions • Decimals and percents • Benchmark fractions
13	Number	<ul style="list-style-type: none"> • Discount and sale prices • Benchmark percents
14	Number	<ul style="list-style-type: none"> • Percent increase and decrease • Fraction decimal percent relationships
15	Number	<ul style="list-style-type: none"> • Place value • Powers of ten
16	Algebra	<ul style="list-style-type: none"> • Patterns • Order of operations
17	Number	<ul style="list-style-type: none"> • Factoring • Number theory
18	Number	<ul style="list-style-type: none"> • Number theory
19	Data Analysis and Probability	<ul style="list-style-type: none"> • Collect, organize, and display data • Sample strategies
20	Data Analysis and Probability	<ul style="list-style-type: none"> • Scatter plots

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Key to Success: Level 3/Grade 8

A Curriculum for Summer School, Extended Time Programs, and Exploration Programs

LESSON	STRAND	MATHEMATICAL CONTENT
1	Number	<ul style="list-style-type: none"> Place value Powers of ten
2	Number	<ul style="list-style-type: none"> Number theory
3	Number	<ul style="list-style-type: none"> Multiplying fractions, squares, and square roots
4	Data Analysis and Probability	<ul style="list-style-type: none"> Collecting and displaying data Scatter plots Squares and square roots
5	Data Analysis and Probability	<ul style="list-style-type: none"> Displays of data Stem and leaf, dot plots, histograms Mode
6	Data Analysis and Probability	<ul style="list-style-type: none"> Measures of center Histograms
7	Data Analysis and Probability	<ul style="list-style-type: none"> Box plots Measures of center
8	Number	<ul style="list-style-type: none"> Ratios Unit rates
9	Number	<ul style="list-style-type: none"> Fraction, decimal, percent relationships Comparing ratios
10	Geometry and Measurement	<ul style="list-style-type: none"> Scale and ratio Measurement
11	Algebra	<ul style="list-style-type: none"> Recursive and direct formulas Patterns in words, symbols, and tables and graphs
12	Algebra	<ul style="list-style-type: none"> Formulas Problem solving using formulas
13	Number	<ul style="list-style-type: none"> Squares and square roots Multiple representations
14	Geometry and Measurement	<ul style="list-style-type: none"> Surface area and volume of cylinders and pyramids
15	Algebra	<ul style="list-style-type: none"> Generating formulas Problem solving using formulas
16	Number	<ul style="list-style-type: none"> Division of fractions Decomposing numbers
17	Algebra	<ul style="list-style-type: none"> Operations with integers Properties of numbers
18	Geometry and Measurement	<ul style="list-style-type: none"> Congruence Congruent triangles
19	Geometry and Measurement	<ul style="list-style-type: none"> Angle relationships Properties of triangles Other geometric figures
20	Geometry and Measurement	<ul style="list-style-type: none"> Pythagorean theorem