

Accelerated Math math management software helps every student master every math objective, 1st grade through calculus. This content library provides the Scope and Sequence of instruction for these Saxon Algebra 1/2 objectives:

**Lesson 1 – Whole Number Place Value; Expanded Notation; Reading and Writing Whole Numbers; Addition**

- Whole number place value
- Expanded notation
- Reading and writing whole numbers
- Addition

**Lesson 2 – The Number Line and Ordering; Rounding Whole Numbers**

- The number line and ordering
- Rounding whole numbers

**Lesson 3 – Subtraction; Addition and Subtraction Patterns**

- Subtraction
- Addition and subtraction patterns

**Lesson 4 – Multiplication; Division; Multiplication and Division Patterns**

- Multiplication
- Division
- Multiplication and division patterns

**Lesson 5 – Addition and Subtraction Word Problems**

- Addition and subtraction word problems

**Lesson 6 – Reading and Writing Decimal Numbers; Adding and Subtracting Decimal Numbers; Rounding Decimal Numbers**

- Reading and writing decimal numbers
- Adding and subtracting decimal numbers
- Rounding decimal numbers

**Lesson 7 – Multiplying Decimal Numbers; Dividing Decimal Numbers; Estimation**

- Multiplying decimal numbers
- Dividing decimal numbers
- Estimation

**LEGEND**

**Lesson**

- **Objective** (Accelerated Math objective(s) supporting that lesson)

**Lesson 8 – Multiplying and Dividing by Powers of 10; Ordering Decimal Numbers**

- Multiplying and dividing by powers of 10
- Ordering decimal numbers

**Lesson 9 – Points, Lines, Rays, and Line Segments; Angles; Perimeter**

- Points, lines, rays, and line segments
- Angles
- Perimeter

**Lesson 10 – Divisibility**

- Divisibility

**Lesson 11 – Word Problems about Equal Groups**

- Word problems about equal groups

**Lesson 12 – Prime Numbers and Composite Numbers; Products of Prime Numbers**

- Prime numbers and composite numbers
- Products of prime numbers

**Lesson 13 – Common Factors and the Greatest Common Factor; Multiplication**

- Common factors and the greatest common factor
- Multiplication

**Lesson 14 – Fractions; Expanding and Reducing Fractions**

- Fractions
- Expanding and reducing fractions

**Lesson 15 – Fractions and Decimals; Fractions to Decimals; Rounding Repeating Decimals to Fractions**

- Fractions and decimals
- Fractions to decimals
- Rounding repeating
- Decimals to fractions

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**Lesson 16 – Exponents**

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- Exponents

**Lesson 17 – Areas of Rectangles**

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- Areas of rectangles

**Lesson 18 – Multiplying Fractions and Whole Numbers; Fractional Part of a Number**

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- Multiplying fractions and whole numbers
- Fractional part of a number

**Lesson 19 – Symbols for Multiplication; Multiplying Fractions; Dividing Fractions**

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- Symbols for multiplication
- Multiplying fractions
- Dividing fractions

**Lesson 20 – Multiples; Least Common Multiple**

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- Multiples
- Least common multiple

**Lesson 21 – Average**

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- Average

**Lesson 22 – Multiple Fractional Factors**

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- Multiple fractional factors

**Lesson 23 – U.S. Customary System; Unit Multipliers**

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- U.S. customary system
- Unit multipliers

**Lesson 24 – Metric System**

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- Metric system

**Lesson 25 – Area as a Difference**

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- Area as a difference

**Lesson 26 – Mode, Median, Mean, and Range; Average in Word Problems**

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- Mode, median, mean, and range
- Average in word problems

**Lesson 27 – Areas of Triangles**

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- Areas of triangles

**Lesson 28 – Improper Fractions, Mixed Numbers, and Decimal Numbers**

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- Improper fractions, mixed numbers, and decimal numbers

**Lesson 29 – Graphs**

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- Graphs

**Lesson 30 – Adding and Subtracting Fractions; Adding and Subtracting Fractions with Unequal Denominators**

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- Add and subtract fractions
- Add and subtract fractions with unequal denominators

**Lesson 31 – Order of Operations**

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- Order of operations

**Lesson 32 – Variables and Evaluation**

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- Variables and evaluation

**Lesson 33 – Multiple Unit Multipliers; Conversion of Units of Area**

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- Multiple unit multipliers
- Conversion of units of area

**Lesson 34 – Adding Mixed Numbers; Rate**

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- Adding mixed numbers
- Rate

**Lesson 35 – Subtracting Mixed Numbers**

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- Subtracting mixed numbers

**Lesson 36 – Rate Word Problems**

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- Rate word problems

**Lesson 37 – Equations: Answers and Solutions**

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- Equations: Answers and solutions

**Lesson 38 – Rectangular Coordinates**

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- Rectangular coordinates

**Lesson 39 – Equivalent Equations; Addition-Subtraction Rule for Equations**

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- Equivalent equations
- Addition-subtraction rule for equations

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**Lesson 40 – Reciprocals; Multiplication Rule;  
Division Rule**

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- Reciprocals
- Multiplication rule
- Division rule

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**Lesson 41 – Overall Average**

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- Overall average

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**Lesson 42 – Symbols of Inclusion; Division in Order  
of Operations**

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- Symbols of inclusion
- Division in order of operations

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**Lesson 43 – Multiplying Mixed Numbers; Dividing  
Mixed Numbers**

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- Multiplying mixed numbers
- Dividing mixed numbers

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**Lesson 44 – Roots; Order of Operations with  
Exponents and Roots**

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- Roots
- Order of operations with exponents and roots

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**Lesson 45 – Volume**

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- Volume

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**Lesson 46 – Order of Operations with Fractions**

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- Order of operations with fractions

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**Lesson 47 – Evaluation of Exponential Expressions  
and Radicals**

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- Evaluation of exponential expressions and radicals

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**Lesson 48 – Fractional Part of a Number;  
Fractional Equations**

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- Fractional part of a number
- Fractional equations

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**Lesson 49 – Surface Area**

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- Surface area

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**Lesson 50 – Scientific Notation for Numbers Greater  
Than Ten; Scientific Notation for Numbers  
Between Zero and One**

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- Scientific notation for numbers greater than ten
- Scientific notation for numbers between 0 and 1

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**Lesson 51 – Decimal Part of a Number**

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- Decimal part of a number

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**Lesson 52 – Fractions and Symbols of Inclusion**

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- Fractions and symbols of inclusion

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**Lesson 53 – Percent**

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- Percent

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**Lesson 54 – Ratio and Proportion;  $P^Q$  and  $P^{(1/Q)}$** 

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- Ratio and proportion
- $P^Q$  and  $P^{(1/Q)}$

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**Lesson 55 – Fractions, Decimals, and Percents;  
Reference Numbers**

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- Fractions, decimals, and percents
- Reference numbers

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**Lesson 56 – Equations with Mixed Numbers**

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- Equations with mixed numbers

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**Lesson 57 – Mixed Number Problems**

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- Mixed number problems

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**Lesson 58 – The Distance Problem**

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- The distance problem

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**Lesson 59 – Proportions with Fractions**

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- Proportions with fractions

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**Lesson 60 – Circles**

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- Circles

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**Lesson 61 – Solving Equations in Two Steps**

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- Solving equations in two steps

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**Lesson 62 – Fractional Part Word Problems**

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- Fractional part word problems

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**Lesson 63 – Changing Rates**

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- Changing rates

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**Lesson 64 – Semicircles**

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- Semicircles

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**Lesson 65 – Proportions with Mixed Numbers; Using Proportions with Similar Triangles**

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- Proportions with mixed numbers
- Using proportions with similar triangles

**Lesson 66 – Ratio Word Problems**

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- Ratio word problems

**Lesson 67 – Using Ratios to Compare**

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- Using ratios to compare

**Lesson 68 – Percent Word Problems; Visualizing Percents Less Than 100**

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- Percent word problems
- Visualizing percents less than 100

**Lesson 69 – Absolute Value; Adding Signed Numbers**

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- Absolute value
- Adding signed numbers

**Lesson 70 – Rules for Addition of Signed Numbers**

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- Rules for addition of signed numbers

**Lesson 71 – Powers of Fractions; Roots of Fractions**

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- Powers of fractions
- Roots of fractions

**Lesson 72 – Graphing Inequalities**

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- Graphing inequalities

**Lesson 73 – Right Circular Cylinders**

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- Right circular cylinders

**Lesson 74 – Inserting Parentheses; Order of Addition**

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- Inserting parentheses
- Order of addition

**Lesson 75 – Implied Ratios**

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- Implied ratios

**Lesson 76 – Multiplication with Scientific Notation**

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- Multiplication with scientific notation

**Lesson 77 – Percents Greater Than 100**

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- Percents greater than 100

**Lesson 78 – Opposites**

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- Opposites

**Lesson 79 – Simplifying More Difficult Notations**

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- Simplifying more difficult notations

**Lesson 80 – Increases in Percent**

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- Increases in percent

**Lesson 81 – Multiplication and Division of Signed Numbers**

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- Multiplication and division of signed numbers

**Lesson 82 – Evaluation with Signed Numbers**

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- Evaluation with signed numbers

**Lesson 83 – Rate Problems as Proportion Problems**

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- Rate problems as proportion problems

**Lesson 84 – Formats for the Addition Rule; Negative Coefficients; Properties of Equality**

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- Formats for the addition rule
- Negative coefficients
- Properties of equality

**Lesson 85 – Equation of a Line; Graphing a Line**

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- Equation of a line
- Graphing a line

**Lesson 86 – Algebraic Phrases**

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- Algebraic phrases

**Lesson 87 – Properties of Algebra**

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- Properties of algebra

**Lesson 88 – Surface Area of a Right Solid**

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- Surface area of a right solid

**Lesson 89 – Trichotomy; Symbols of Negation**

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- Trichotomy
- Symbols of negation

**Lesson 90 – Algebraic Sentences**

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- Algebraic sentences

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**Lesson 91 – Order of Operations with Signed Numbers and Symbols of Inclusion**

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- Order of operations with signed numbers and symbols of inclusion

**Lesson 92 – Estimating Roots**

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- Estimating roots

**Lesson 93 – Fraction Bars as Symbols of Inclusion**

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- Fraction bars as symbols of inclusion

**Lesson 94 – Terms; Adding Like Terms, Part 1**

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- Terms
- Adding like terms, part 1

**Lesson 95 – Variables on Both Sides**

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- Variables on both sides

**Lesson 96 – Multiple-Term Equations**

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- Multiple-term equations

**Lesson 97 – Two-Step Problems**

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- Two-step problems

**Lesson 98 – Adjacent Angles; Complementary and Supplementary Angles; Measuring Angles**

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- Adjacent angles
- Complementary and supplementary angles
- Measuring angles

**Lesson 99 – Exponents and Signed Numbers**

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- Exponents and signed numbers

**Lesson 100 – Advanced Ratio Problems**

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- Advanced ratio problems

**Lesson 101 – Multiplication of Exponential Expressions; Variable Bases**

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- Multiplication of exponential expressions
- Variable bases

**Lesson 102 – Adding Like Terms, Part 2**

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- Adding like terms, part 2

**Lesson 103 – Distributive Property**

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- Distributive property

**Lesson 104 – Classifying Triangles; Angles in Triangles**

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- Classifying triangles
- Angles in triangles

**Lesson 105 – Evaluating Powers of Negative Bases**

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- Evaluating powers of negative bases

**Lesson 106 – Roots of Negative Numbers; Negative Exponents; Zero Exponents**

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- Roots of negative numbers
- Negative exponents
- Zero exponents

**Lesson 107 – Roman Numerals**

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- Roman numerals

**Lesson 108 – Fractional Percents**

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- Fractional percents

**Lesson 109 – Simple Interest; Compound Interest**

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- Simple interest
- Compound interest

**Lesson 110 – Markup and Markdown**

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- Markup and markdown

**Lesson 111 – Commission; Profit**

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- Commission
- Profit

**Lesson 112 – Probability, Part 1**

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- Probability, part 1

**Lesson 113 – Inch Scale; Metric Scale**

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- Inch scale
- Metric scale

**Lesson 114 – Probability, Part 2: Independent Events**

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- Probability, part 2: Independent events

**Lesson 115 – Polygons; Congruence and Transformation**

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- Polygons
- Congruence and transformation

**Lesson 116 – Area of Parallelograms and Trapezoids**

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- Area of parallelograms and trapezoids

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**Lesson 117 – Equations with  $x^2$ ; Pythagorean Theorem; Demonstration of the Pythagorean Theorem**

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- Equations with  $x^2$
- Pythagorean theorem
- Demonstration of the Pythagorean theorem

**Lesson 118 – English Volume Conversions**

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- English volume conversions

**Lesson 119 – Metric Volume Conversions**

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- Metric volume conversions

**Lesson 120 – Volume of Pyramids, Cones, and Spheres; Surface Area of Pyramids and Cones**

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- Volume of pyramids, cones, and spheres
- Surface area of pyramids and cones

**Lesson 121 – Forming Solids; Symmetry**

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- Forming solids
- Symmetry

**Lesson 122 – Permutations**

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- Permutations

**Lesson 123 – Numerals and Numbers; The Subsets of the Real Numbers**

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- Numerals and numbers
- The subsets of the real numbers

**Lesson 201 – Topic A: Geometric Constructions**

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- Construct angle copies and angle bisectors
- Construct perpendicular bisectors
- Construct perpendiculars to a line given a point

**Lesson 202 – Topic B: Representing Data**

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- Stem-and-leaf plots
- Box-and-whisker plots
- Histograms

**Lesson 203 – Topic C: Arithmetic in Base 2**

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- Base 2
- Adding in base 2
- Binary fractions
- Multiplication in base 2

**Lesson 204 – Topic D: Theorems About Angles and Circular Arcs**

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- Angles formed by parallel lines and a transversal
- Arcs formed by central angles and inscribed angles

**Lesson 205 – Topic E: Approximating Roots**

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- Square roots
- Higher order roots

**Lesson 206 – Topic F: Polynomials**

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- Addition
- Multiplication
- Simple division

**Lesson 207 – Topic G: Transformational Geometry**

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- Translations
- Reflections
- Rotations

**Lesson 208 – Topic H: Advanced Graphing**

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- Advanced graphing

**Lesson 209 – Topic I: Slope**

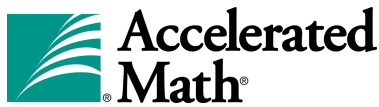
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- Finding the slope of a line using points
- Finding the slope of a line using its equation

**Lesson 210 – Topic J: Basic Geometry**

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- Trigonometric ratios
- Trigonometric tables
- Trigonometric applications



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