

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 I objectives:

**Lesson 1 – Addition and Subtraction of Fractions;
Lines and Segments**

- Addition and subtraction of fractions
- Lines and segments

Lesson 2 – Angles; Polygons; Triangles; Quadrilaterals

- Angles
- Polygons
- Triangles
- Quadrilaterals

Lesson 3 – Perimeter; Circumference

- Perimeter
- Circumference

Lesson 4 – Review of Arithmetic

- Numerals and numbers
- Natural or counting numbers
- Real numbers
- Number lines
- Multiplication and division of fractions
- Symbols of equality and inequality
- Basic operations
- Review of operations with decimal numbers
- Unit multipliers
- Conversions of length

**Lesson 5 – Sets; Absolute Value; Addition of Signed
Numbers**

- Sets
- Absolute value
- Addition of signed numbers

**Lesson 6 – Rules for Addition; Adding More Than
Two Numbers; Inserting Parentheses
Mentally; Definition of Subtraction**

- Rules for addition
- Adding more than two numbers
- Inserting parentheses mentally
- Definition of subtraction

LEGEND**Lesson**

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

**Lesson 7 – The Opposite of a Number; Simplifying
More Difficult Notations**

- The opposite of a number
- Simplifying more difficult notations

Lesson 8 – Area

- The concept of area
- Areas of rectangles and squares
- Areas of triangles
- Areas of circles
- Areas of parallelograms and trapezoids

**Lesson 9 – Rules for Multiplication of Signed
Numbers; Inverse Operations; Rules
for Division of Signed Numbers; Summary**

- Rules for multiplication of signed numbers
- Inverse operations
- Rules for division of signed numbers
- Summary

**Lesson 10 – Division by Zero; Exchange of Factors in
Multiplication; Conversions of Area**

- Division by zero
- Exchange of factors in multiplication
- Conversions of area

**Lesson 11 – Reciprocal and Multiplicative Inverse;
Order of Operations; Identifying
Multiplication and Division**

- Reciprocal and multiplicative inverse
- Order of operations
- Identifying multiplication and addition

Lesson 12 – Symbols of Inclusion; Order of Operations

- Symbols of inclusion
- Order of operations

Lesson 13 – Multiple Schools of Inclusion; More on Order of Operations; Products of Signed Numbers

- Multiple symbols of inclusion
- More on order of operations
- Products of signed numbers

Lesson 14 – Evaluation of Algebraic Expressions

- Evaluation of algebraic expressions

Lesson 15 – Surface Area

- Surface area

Lesson 16 – More Complicated Evaluations

- More complicated evaluations

Lesson 17 – Factors and Coefficients; Terms; The Distributive Property

- Factors and coefficients
- Terms
- The distributive property

Lesson 18 – Like Terms; Addition of Like Terms

- Like terms
- Addition of like terms

Lesson 19 – Exponents; Powers of Negative Numbers; Roots; Evaluation of Powers

- Exponents
- Powers of negative numbers
- Roots
- Evaluation of powers

Lesson 20 – Volume

- Volume

Lesson 21 – Product Rule for Exponents; Addition of Like Terms with Exponents

- Product rule for exponents
- Addition of like terms with exponents

Lesson 22 – Review of Numerical and Algebraic Expressions; Statements and Sentences; Conditional Equations

- Review of numerical and algebraic expressions
- Statements and sentences
- Conditional equations

Lesson 23 – Equivalent Equations; Additive Property of Equality

- Equivalent equations
- Additive property of equality

Lesson 24 – Multiplicative Property of Equality

- Multiplicative property of equality

Lesson 25 – Solution of Equations

- Solution of equations

Lesson 26 – More Complicated Equations

- More complicated equations

Lesson 27 – More on the Distributive Property; Simplifying Decimal Equations

- More on the distributive property
- Simplifying decimal equations

Lesson 28 – Fractional Parts of Numbers; Functional Notation

- Fractional parts of numbers
- Functional notation

Lesson 29 – Negative Exponents; Zero Exponents

- Negative exponents
- Zero exponents

Lesson 30 – Algebraic Phrases; Decimal Parts of a Number

- Algebraic phrases
- Decimal parts of a number

Lesson 31 – Equations with Parentheses

- Equations with parentheses

Lesson 32 – Word Problems

- Word problems

Lesson 33 – Products of Prime Factors; Statements about Unequal Quantities

- Products of prime factors
- Statements about unequal quantities

Lesson 34 – Greatest Common Factor

- Greatest common factor

Lesson 35 – Factoring the Greatest Common Factor; Canceling

- Factoring the greatest common factor
- Canceling

Lesson 36 – Distributive Property of Rational Expressions that Contain Positive Exponents; Minus Signs and Negative Exponents

- Distributive properties of rational expressions that contain positive exponents
- Minus signs and negative exponents

Lesson 37 – Inequalities; Greater Than and Less Than; Graphical Solutions of Inequalities

- Inequalities
- Greater than and less than
- Graphical solutions of inequalities

Lesson 38 – Ratio Problems

- Ratio problems

Lesson 39 – Trichotomy Axiom; Negated Inequalities; Advanced Ratio Problems

- Trichotomy axiom
- Negated inequalities
- Advanced ratio problems

Lesson 40 – Quotient Rule for Exponents; Distributive Property of Rational Expressions that Contain Negative Exponents

- Quotient rule for exponents
- Distributive property of rational expressions that contain negative exponents

Lesson 41 – Addition of Like Terms in Rational Expressions; Two-Step Problems

- Addition of like terms in rational expressions
- Two-step problems

Lesson 42 – Solving Multivariable Equations

- Solving multivariable equations

Lesson 43 – Least Common Multiple; Least Common Multiples of Algebraic Expressions

- Least common multiple
- Least common multiples of algebraic expressions

Lesson 44 – Addition of Rational Expressions with Equal Denominators; Addition of Rational Expressions with Unequal Denominators

- Add rational expressions with equal denominators
- Add rational expressions with unequal denominators

Lesson 45 – Range, Median, Mode, and Mean

- Range, median, mode, and mean

Lesson 46 – Conjunctions

- Conjunctions

Lesson 47 – Percents Less Than 100; Percents Greater Than 100

- Percents less than 100
- Percents greater than 100

Lesson 48 – Polynomials; Degree; Addition of Polynomials

- Polynomials
- Degree
- Addition of polynomials

Lesson 49 – Multiplication of Polynomials

- Multiplication of polynomials

Lesson 50 – Polynomial Equations; Ordered Pairs; Cartesian Coordinate System

- Polynomial equations
- Ordered pairs
- Cartesian coordinate systems

Lesson 51 – Graphs of Linear Equations; Graphs of Vertical and Horizontal Lines

- Graphs of linear equations
- Graphs of vertical and horizontal lines

Lesson 52 – More on Addition of Rational Expressions with Unequal Denominators; Overall Average

- More on addition of rational expressions with unequal denominators
- Overall average

Lesson 53 – Power Rule for Exponents; Conversions of Volume

- Power rule for exponents
- Conversions of volume

Lesson 54 – Substitution Axiom; Simultaneous Equations; Solving Simultaneous Equations by Substitution

- Substitution axiom
- Simultaneous equations
- Solving simultaneous equations by substitution

Lesson 55 – Complex Fractions; Division Rule for Complex Fractions

- Complex fractions
- Division rule for complex fractions

Lesson 56 – Finite and Infinite Sets; Membership in a Set; Rearranging before Graphing

- Finite and infinite sets
- Membership in a set
- Rearranging before graphing

Lesson 57 – Addition of Algebraic Expressions with Negative Exponents

- Addition of algebraic expressions with negative exponents

Lesson 58 – Percent Word Problems

- Percent word problems

Lesson 59 – Rearranging before Substitution

- Rearranging before substitution

Lesson 60 – Geometric Solids; Prisms and Cylinders

- Geometric solids
- Prisms and cylinders

Lesson 61 – Subsets; Subsets of the Set of Real Numbers

- Subsets
- Subsets of the set of real numbers

Lesson 62 – Square Roots; Higher Order Roots; Evaluating Using Plus or Minus

- Square roots
- Higher order roots
- Evaluating using plus or minus

Lesson 63 – Product of Square Roots Rule; Repeating Decimals

- Product of square roots rule
- Repeating decimals

Lesson 64 – Domain; Additive Property of Inequality

- Domain
- Additive property of inequality

Lesson 65 – Addition of Radical Expressions; Weighted Average

- Addition of radical expressions
- Weighted Average

Lesson 66 – Simplification of Radical Expressions; Square Roots of Large Numbers

- Simplification of radical expressions
- Square roots of large numbers

Lesson 67 – Review of Equivalent Equations; Elimination

- Review of equivalent equations
- Elimination

Lesson 68 – More About Complex Fractions

- More about complex fractions

Lesson 69 – Factoring Trinomials

- Factoring trinomials

Lesson 70 – Probability; Designated Order

- Probability
- Designated order

Lesson 71 – Trinomials with Common Factors; Subscripted Variables

- Trinomials with common factors
- Subscripted variables

Lesson 72 – Factors That Are Sums; Pyramids and Cones

- Factors that are sums
- Pyramids and cones

Lesson 73 – Factoring the Difference of Two Squares; Probability without Replacement

- Factoring the difference of two squares
- Probability without replacement

Lesson 74 – Scientific Notation

- Scientific notation

Lesson 75 – Writing the Equation of a Line; Slope-Intercept Method of Graphing

- Writing the equation of a line
- Slope-intercept method of graphing

Lesson 76 – Consecutive Integers

- Consecutive integers

Lesson 77 – Consecutive Odd and Consecutive Even Even Integers; Fractions and Decimal Word Problems

- Consecutive odd and consecutive even integers
- Fractions and decimal word problems

Lesson 78 – Rational Equations

- Rational equations

Lesson 79 – Systems of Equations with Subscripted Variables

- Systems of equations with subscripted variables

Lesson 80 – Operations with Scientific Notation

- Operations with scientific notation

Lesson 81 – Graphical Solutions; Inconsistent Equations; Dependent Equations

- Graphical solutions
- Inconsistent equations
- Dependent equations

Lesson 82 – Evaluating Functions; Domain and Range

- Evaluating functions
- Domain and range

Lesson 83 – Coin Problems

- Coin problems

Lesson 84 – Multiplication of Radicals; Functions

- Multiplication of radicals
- Functions

Lesson 85 – Stem-and-Leaf Plots; Histograms

- Stem-and-leaf plots
- Histograms

Lesson 86 – Division of Polynomials

- Division of polynomials

Lesson 87 – More on Systems of Equations; Test for Functions

- More on systems of equations
- Test for functions

Lesson 88 – Quadratic Equations; Solution of Quadratic Equations by Factoring

- Quadratic equations
- Solution of quadratic equations by factoring

Lesson 89 – Value Problems

- Value problems

Lesson 90 – Word Problems with Two Statements of Equality

- Word problems with two statements of equality

Lesson 91 – Multiplicative Property of Inequality; Spheres

- Multiplicative property of inequality
- Spheres

Lesson 92 – Uniform Motion Problems About Equal Distances

- Uniform motion problems about equal distances

Lesson 93 – Products of Rational Expressions; Quotients of Rational Expression

- Products of rational expressions
- Quotients of rational expressions

Lesson 94 – Uniform Motion Problems of the Form $D_1 + D_2 = N$

- Uniform motion problems of form $D_1 + D_2 = N$

Lesson 95 – Graphs of Non-Linear Functions; Recognizing Shapes of Various Non-Linear Functions

- Graphs of non-linear functions
- Recognizing shapes of various non-linear functions

Lesson 96 – Difference of Two Squares Theorem

- Difference of two squares theorem

Lesson 97 – Angles and Triangles; Pythagorean Theorem; Pythagorean Triples

- Angles and triangles
- Pythagorean theorem
- Pythagorean triples

Lesson 98 – Distance Between Two Points; Slope Formula

- Distance between two points
- Slope formula

Lesson 99 – Uniform Motion – Unequal Distances

- Uniform motion – unequal distances

Lesson 100 – Place Value; Rounding Numbers

- Place value
- Rounding numbers

Lesson 101 – Factorable Denominators

- Factorable denominators

Lesson 102 – Absolute Value Inequalities

- Absolute value inequalities

Lesson 103 – More on Rational Equations

- More on rational equations

Lesson 104 – Abstract Rational Equations

- Abstract rational equations

Lesson 105 – Factoring by Grouping

- Factoring by grouping

Lesson 106 – Linear Equations; Equation of a Line Through Two Points

- Linear equations
- Equation of a line through two points

Lesson 107 – Line Parallel to a Given Line; Equation of a Line with a Given Slope

- Line parallel to a given line
- Equation of a line with a given slope

Lesson 108 – Square Roots Revisited; Radical Equations

- Square roots revisited
- Radical equations

Lesson 109 – Advanced Trinomial Factoring

- Advanced trinomial factoring

Lesson 110 – Vertical Shifts; Horizontal Shift; Reflection About the x Axis; Combinations of Shifts and Reflections

- Vertical shifts
- Horizontal shifts
- Reflection about the x axis
- Combinations of shifts and reflections

Lesson 111 – More on Conjunctions; Disjunctions

- More on conjunctions
- Disjunctions

Lesson 112 – More on Multiplication of Radical Expressions

- More on multiplication of radical expressions

Lesson 113 – Direct Variation; Inverse Variation

- Direct variation
- Inverse variation

Lesson 114 – Exponential Key; Exponential Growth; Using the Graphing Calculator to Graph Exponential Functions

- Exponential key
- Exponential growth
- Use the graphing calculator to graph exponential functions

Lesson 115 – Linear Inequalities

- Linear inequalities

Lesson 116 – Quotient Rule for Square Roots

- Quotient rule for square roots

Lesson 117 – Direct and Inverse Variation Squared

- Direct and inverse variation squared

Lesson 118 – Completing the Square

- Completing the square

Lesson 119 – The Quadratic Formula; Use of the Quadratic Formula

- The quadratic formula
- Use of the quadratic formula

Lesson 120 – Box-and-Whisker Plots

- Box-and-whisker plots

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