Attainment Company's *Teaching to Standards: Math*
Alignment to Georgia Mathematics Standards

Grades 3-12

Note: Alignment is indicated in yellow highlighted text

Grades 3-5

	3rd	4th	5th
Numbers and Operations	Place value tenths to then-thousandths Application of addition, subtraction Algebra unit Multiplication concepts 2-3 digit by 1-digit Challenge lessons (Measurement) Concepts of Division 2-3 digit by 1-digit whole numbers Basic concepts of Decimal Fractions and Common Fractions	Place Value hundredths to one million Rounding to nearest 10,000 or 1,000 Multiplication concepts 2-3 digits by 1-2 digits Challenge lessons (Measurement) Multi-Digit Division by 2-digit whole number Compute with 2-digit decimal fractions Add,/Subtract common fractions with common denominators Order of Operations Algebra Unit Properties	Multiples, Factors, Divisibility Place Value Measurement Unit Compute (+,-, ,) with and apply decimal fractions less than one and greater than one Algebra Unit Compute and estimate Fractions with unlike denominators Meaning of Percentage

Measurement

Measurement Unit

Elapsed Time (full, half, quarter hour)
Length to nearest •••, ••• inch and mm
Area and Perimeter of squares and rectangles
Challenge Lesson-

Weight and Mass
Angle Concepts and Measurement

Concepts / Computation / Estimation of Area
Capacity
Concepts and Measurement of Volume of Cube and Rectangular Prism

Geometry

Geometry Unit

Application of Geometric Figures
Angle relationships
Concepts of Circles

Classification of Geometric Figures
Models of 3-D Figures
Coordinate System

Meaning of Congruence
Circumference

Algebra

Algebra Unit

Data Analysis and Probability

Data Analysis Unit

Using Mathematical Expressions to Represent Relationships

Creating and Interpreting Tables and Graphs

Interpret Mathematical Relationships in Quantitative Expressions
Collecting, Organizing, and Displaying Data

Algebraic Representation using variables
Organize, Display, and Analyze Data, Choose Appropriate Graphs

Process Skills	Problem Solving, Arguments, Language of Mathematics, Interconnectivity, Communication	Problem Solving, Arguments, Language of Mathematics, Interconnectivity, Communication	Problem Solving, Arguments, Language of Mathematics, Interconnectivity, Communication

Middle School

Numbers and Operations	6th Factors and multiples • Fundamental Theorem of Arithmetic • GCF and LCM • Compute with fractions and mixed numbers (unlike denominators) • Equivalent fractions, decimals, and percents	7th • Absolute value • Compare & order rational numbers • Compute & solve problems with positive and negative rational numbers	8th • Square roots of perfect squares • Rational vs Irrational numbers • Simplify expressions with integer exponents • Scientific Notation
Measurement		• Convert units using proportions • Volume of right rectangular prisms, right circular cylinders, pyramids and cones • Surface area of right rectangular prisms, right circular cylinders	

Geometry

- Line & rotational symmetry
- Ratio, proportion and scale factor with similar plane figures
- Scale drawings
- Compare/contrast right prisms/pyramids and cylinders/cones
- Views of solid figures
- Nets (prisms, cylinders, pyramids, and cones)
- Basic constructions
- Transformations
- Properties of similarity
- 3-D figures formed by translations & rotations in space
- Cross sections of cones, cylinders, pyramids and prisms
- Properties of parallel and perpendicular lines
- Meaning of congruence
- Pythagorean Theorem

Algebra

- Ratio for quantitative relationship
- Write & solve proportions
- Write & solve simple one-step equations
- Algebraic expressions
- Linear equations in one variable
- Relationships between two variables
- Represent, analyze, and solve problems
- Inequalities in one variable
- Graphs of linear equations and inequalities
- Systems of linear equations and inequalities

Data Analysis and Probability

- Question, Collect Data, Make Graphs
- Experimental/ Theoretical Probability
- Predictions from investigations
- Question, Collect Data, Make Graphs, Interpret results
- Set theory
- Tree Diagrams/ Counting Principles
- Basic laws of probability
- Organize, interpret, make inferences form data

Process Skills	Problem Solving, Arguments, Communicate, Connections, Multiple Representations	Problem Solving, Arguments, Communicate, Connections, Multiple Representations	Problem Solving, Arguments, Communicate, Connections, Multiple Representations