**Student Personal Learning Goals – Mathematics Edition**

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| **Charting My Progress Grade 3 page 1 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **3.OA.1 3.OA.2 3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7 3.OA.8 3.OA.9** | I interpret sums and differences of whole numbers.I find unknown terms in addition and subtraction equations.I add and subtract whole numbers.I solve one-step word problems.I find the next term in an arithmetic pattern.  | I interpret whole-number products.I solve one-step problems using multiplication.I find an unknown in a multiplication equation.I extend the terms of an arithmetic pattern.  | I interpret whole-number products and quotients.I solve two-step word problems using all four operations.I apply a property of operations to multiply and divide.I find unknowns in multiplication and division equations.I identify unknown factors in multiplication expressions.  | I interpret products and quotients.I solve two-step word problems using all four operations.I apply multiple properties of operations to multiply and divide.I find unknowns in equations.I represent division in terms of unknown factors.I fluently multiply and divide.I identify multiple-rule arithmetic patterns.  |
| **3.NBT.1 3.NBT.2 3.NBT.3**  | I understand place value to 1000. I can multiply single-digit numbers.  | I add and subtract within 1000  | I use place value relationships to round numbers. I can multiply whole numbers by multiples of ten. I can add and subtract fluently.I can explain arithmetic patterns.  | I recognize that each place value, left to right, is ten times the one before it.I can round to specific whole-number place values.I can multiply multiples of ten by each other.  |
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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **3.NF.1 3.NF.2 3.NF.3** | I identify fractional parts of one whole.I recognize unit fractions on a visual model.  | I understand a unit fraction as an equal part of one whole.I represent unit fractions on a number line.  | I understand fractions in terms of equal parts of a whole and intervals on a number line.I recognize fractional equivalence using a visual model.I compare fractions with the same numerator or with the same denominator.  | I understand fractions, fractional equivalence, comparisons, unit fractions, and addition and subtraction of fractions in terms of equal partitions of one or more wholes and intervals on a number line. . |
| **3.MD.1 3.MD.2 3.MD.3 3.MD.4 3.MD.5 3.MD.6 3.MD.7 3.MD.8** | I tell and write time to the nearest five minutes.I recognize standard units such as grams and liters.I draw a picture graph or bar graph to represent data.I recognize polygons have side lengths.  | I tell and write time to the minute.I measure length to the nearest whole unit.I identify two or more attributes of two- dimensional objects.I compare areas by size.I find the area of a rectangle with whole-number sides.I interpret picture or bar graph to represent data.I solve one-step problems using the information presented.I measure units to the nearest half.I generate a line plot.I find perimeter, given side lengths.  | I tell and write time to the minute.I measure elapsed time intervals in minutes.I measure and estimate length to one- quarter of a unit.I measure volume and mass.I draw and interpret pictographs and bar graphs.I find areas by adding squares and by relating to multiplication of side lengths.I measure units to nearest half and fourth.I generate a line plot.I find perimeter, given side lengths and unknown side lengths.I find rectangles with the same perimeter and different areas or with the same area and different perimeters.  | I tell and write time.I measure elapsed time.I measure and estimate lengths, volumes, and masses.I draw graphs.I solve multistep problems involving interpreting graphs.I measure units to nearest half and fourth.I construct and interpret line plots. I recognize patterns between area and perimeter.  |
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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **3.G.1 3.G.2** | I recognize quadrilaterals.I partition shapes into halves.  | I recognize that shapes fit into different categories.I partition regular polygons into regions of equal areas.  | I understand categories of two- dimensional shapes.I relate equal areas of shapes to fractional parts.I draw examples of quadrilaterals that do not belong to any subcategories of quadrilaterals.  | I recognize multiple attributes of two-dimensional objects.I calculate areas of rectangles and perimeters of polygons.I partition shapes into equal areas and relates them to fractional parts.  |

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| **Charting My Progress Grade 4 page 1 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **4.OA.1 4.OA.2 4.OA.3 4.OA.4 4.OA.5**  | I solve single-step word problems by adding, subtracting, and multiplying.I find all factor pairs to 24.  | I solve single-step word problems by multiplying and dividing with whole-number factors, products, dividends, divisors, and quotients.I find all factor pairs to 48.I identify the next term in a number or shape pattern.  | I interpret multiplication equations and uses them to solve multistep word problems using the four operations.I find factor pairs.I identify the rule for number and shape patterns.I interpret remainders.I use strategies to assess the reasonableness of answers.  | I interpret multiplication equations as comparisons and use them to solve multistep word problems using the four operations.I find factor pairs.I generate number and shape patterns that follow a given rule.I recognize a remainder as a fractional part of the divisor.  |
| **4.NBT.1 4.NBT.2 4.NBT.3 4.NBT.5 4.NBT.6**  | I add and subtract up to three digits. I use place value to read and write numbers.I illustrate and explain calculations when multiplying and dividing.  | I add and subtract whole numbers up to three digits.I find whole-number quotients to two digits.i use place value to compare numbers.I read and write numbers and use expanded form  | I add, subtract, and multiply fluently. I find whole-number quotients to four digits.I represent numbers in expanded form to 1000.I use place value to order and compare numbers.I recognize whole-number patterns in base ten.  | I add, subtract, multiply, and divide fluently.I use place value to symbolically order and compare numbers.I represent numbers in expanded form.I round to specified place values.I explain whole- number patterns. |
| **Charting My Progress Grade 4 page 2 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **4.NF.1 4.NF.2 4.NF.3 4.NF.4 4.NF.5 4.NF.6** | I compare fractions with like denominators.I identify tenths, both as fractions and as decimals, using visual models.  | I compare fractions with like numerators or like denominators.I identify unit fractions.I add or subtract fractions with like denominators.I identify tenths and hundredths, both as fractions and as decimals, using visual models.  | I understand and use fraction equivalence.I compare fractions symbolically.I identify unit fractions that compose fractions with numerators >2.I add and subtract fractions with like denominators.I solve two-step word problems with addition and subtraction of fractions.I multiply fractions by whole numbers.I solve word problems with multiplication of fractions by whole numbers.I find equivalent fractions using tenths and hundredths.I compare two decimals.  | I understand and represent fraction equivalence.I order fractions symbolically.I represent and decompose fractions as a sum of unit fractions.I add and subtract fractions and mixed numbers with like denominators.I solve multistep word problems with addition and subtraction of fractions.I represent and explain multiplication of fractions by whole numbers.I solve multistep word problems with multiplication of fractions by whole numbers.I order three or more decimals from least to greatest or greatest to least.  |
| **Charting My Progress Grade 4 page 3 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **4.MD.1 4.MD.2 4.MD.3 4.MD.4 4.MD.5 4.MD.6 4.MD.7 4.MD.8** | I distinguish between larger and smaller units of measurement by recognizing factors as units of conversion.I identify data from line plots in whole-number units.I recognize angles.  | I convert units of measurement using multiplication.I draw line plots to represent data in whole-number units.I recognize angles are fractions of a circle and are measured in degrees.I find the area of rectangles.  | I solve two-step problems in measurement conversion using the four operations and application of formulas.I draw line plots to represent data in fractions of a unit (1⁄2, 1⁄4, 1⁄8).I solve two-step problems involving interpretation of data.I recognize angles are fractions of circles and are measured in degrees.I solve addition and subtraction word problems involving angles.I find the area of rectilinear figures.  | I solve multistep problems in measurement conversion using and reversing the four operations and through the selection and application of formulas.I draw line plots in fractions of a unit to represent data.I solve multistep problems involving interpretation of data.I decompose angles.  |
| **Charting My Progress Grade 4 page 4 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **4.G.1 4.G.2 4.G.3** | I draw points and line segments.I identify two- dimensional shapes.I recognize shapes with symmetry.  | I draw points, lines, and angles and identifies them in two- dimensional shapes.I classify two-dimensional shapes.I identify different kinds of triangles.I distinguish between two-dimensional shapes with and without symmetry.I identify a line of symmetry.  | I draw points, lines, line segments, rays, angles, and parallel and perpendicular lines and identifies them in two- dimensional shapes.I classify two-dimensional shapes based on the presence of geometric characteristics.I identify right triangles.I identify lines of symmetry in two-dimensional shapes.I draw lines of symmetry.  | I draw, define, and interpret points, lines, line segments, rays, angles, and parallel and perpendicular lines and represents them in two- dimensional shapes.I classify two-dimensional figures based on the presence or absence of geometric characteristics.I identify and generalize right triangles.I interpret symmetry as a characteristic of two- dimensional shapes.I provide nonexamples of two- dimensional shapes, given specific characteristics.  |

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| **Charting My Progress Grade 5 page 1 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **5.OA.1 5.OA.2 5.OA.3** | I write one-step numerical expressions.I identify the next term in a pattern.  | I write simple numerical expressions. I use a set of grouping symbols.I identify a pattern based on a rule.  | I write, evaluate, and interpret numerical expressions using parentheses, brackets, or braces.I generate two numerical patterns from a rule.I identify the corresponding terms, using an input/output table.I use terms.I form and graph ordered pairs on a coordinate plane.  | I solve multistep word problems by writing, evaluating, and interpreting numerical expressions with two or more sets of grouping symbols.I generate patterns.I explain the corresponding relationships on an input/output table.I form and graph ordered pairs on a coordinate grid.I explain data displayed on a coordinate grid.  |
| **5.NBT.1 5.NBT.2 5.NBT.3 5.NBT.4 5.NBT.5 5.NBT.6 5.NBT.7 5.NBT.6 5.NBT.7** | I recognize place value names and quantity.I add and subtract decimals.  | I recognize increasing and decreasing place value.I can read, write, and compare decimals to tenths.I multiply multidigit numbers.I add, subtract, and multiply decimals.I multiply and divide by powers of ten.  | I recognize the directional characteristics of place value.I read, write, and compare decimals to thousandths.I multiply and divide multidigit numbers.I add, subtract, multiply, and divide decimals.I use whole- number exponents to denote powers of ten. .  | I recognize the ascending and descending characteristics of place value. I read, write, and compare decimals, including expanded form.I use place value to round decimals.I fluently multiply and divide multidigit numbers.I fluently add, subtract, multiply, and divide decimals.I compare three or more decimals to the thousandths.  |

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| **Charting My Progress Grade 5 page 2 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **5.NF.1 5.NF.2 5.NF.3 5.NF4 5.NF.5 5.NF.6 5.NF.7** | I add and subtract fractions with like denominators.  | I use area models to add and subtract fractions with unlike denominators.I solve single- step word problems with addition and subtraction of fractions.I multiply fractions by whole numbers.  | I add and subtract fractions and mixed numbers.I solve word problems with addition and subtraction of fractions.I recognize fractions as numerator divided by denominator.I solve word problems with mixed-number quotients.I fluently multiply fractions by whole numbers.I solve problems with areas of rectangles with fractional side lengths.I interpret multiplication as scaling with respect to fractions > 1 and < 1.I solve problems involving multiplication of fractions and mixed numbers.I represent division of fractions by dividing unit fractions by whole numbers.I divide whole numbers by unit fractions.I solve problems involving division of fractions.  | I add and subtract fractions and mixed numbers.I solve multistep word problems with addition and subtraction of fractions.I recognize and interpret fractions as numerator divided by denominator.I solve multistep word problems with mixed- number quotients.I fluently multiply fractions by whole numbers.I solve multistep problems with areas of rectangles with fractional side lengths.I understand, interpret, and represent multiplication as scaling with respect to fractions > 1 and < 1.I solve multistep problems in multiplication of fractions and mixed numbers.I represent and interpret division of fractions by dividing unit fractions by whole numbers.I divide whole numbers by unit fractions.I solve multistep problems in division of fractions.  |
| **Charting My Progress Grade 5 page 3 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **5.MD.1 5.MD.2 5.MD.3 5.MD.4 5.MD.5** | I calculate one-step conversions of length.I identify measures of volume.I find volumes of rectangular prisms by counting unit cubes.  | I calculate one-step conversions of length and mass within a given system.I create line plots.I identify volume as an attribute of three-dimensional objects.  | I calculate one-step conversions of time, length, volume, and mass within a given system.I create and interpret line plots.I identify and represent volume as an attribute of three- dimensional objects.I find the volume of rectangular prisms.I recognize volume as additive.  | I calculate multistep conversions of time, length, volume, and mass.I create and interpret multiple characteristics of line plots.I represent, compare, and analyze volume as an attribute of three-dimensional objects.I find missing side lengths with a given volume.  |
| **5.G.1 5.G.2 5.G.3 5.G.4** | I plot points on the coordinate plane.I identify two- dimensional figures  | I calculate volumes of rectangular prisms.I identify two-dimensional figures.I identify ordered pairs on the coordinate plane.I classify shapes according to their attributes.  | I compute volume and relate them to operations.I use and apply graphing on x/y- coordinate systems.I recognize and classify two- dimensional figures by hierarchy.  | I recognize the ascending and descending characteristics of place value. I relate volume to additive operations.I create and use x/y-coordinate systems.I classify two-dimensional objects by hierarchy.I graph and interpret real world contexts/problems in the first quadrant.  |

**Student Personal Learning Goals – Middle School Mathematics Edition**

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| **Charting My Progress Math 6 page 1 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **6.RP.1 6.RP.2 6.RP.3** | I understand ratio concepts as numerator/denominator relationships, percentages, and rates of measure.I use ratio reasoning to solve problems.  | I understand ratio concepts as dividend/divisor relationships, equivalent fractions, percentages, and relationships between rates of measure.I use ratio reasoning to solve problems.  | I understand ratio concepts as numerical comparisons, using division, equivalence of rates, percentages, and measurement conversions.I use ratio reasoning to solve problems.  | I understand ratio concepts as numerical and symbolic comparisons.I use division and multiplication by reciprocals, I determine equivalence and inequality of rates.I determine percentages and fractions of percentages.I calculate measurement conversions and rates.I use ratio and proportional reasoning to solve problems.  |
| **Charting My Progress Math 6 page 2 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **6.NS.1 6.NS.2 6.NS.3 6.NS.4 6.NS.5 6.NS.6** | I add, subtract, and multiply whole numbers.I identify common multiples.I order positive integers.I identify integral points in quadrant I.I order positive integers on a number line.  | I use visual fraction models as reasoning strategies to solve problems in division of fractions.I fluently add, subtract, and multiply whole numbers.I identify common factors and common multiples.I order positive and negative integers, using a number line.I identify the absolute value of positive and negative integers.I solve word problems involving plotting integer points in quadrant I.  | I apply understanding of multiplication and division to divide decimals and fractions by fractions.I compute fluently with multidigit numbers.I apply previous understanding of numbers to the system of rational numbers.I find and apply least common multiples and greatest common factors.I order rational numbers.I plot in all four quadrants.  | I interpret and apply understanding of multiplication and division to divide fractions by decimals and fractions.I compute fluently with multidigit whole numbers.I analyze and apply previous understanding of numbers to the system of rational numbers in real-world contexts.  |
| **Charting My Progress Math 6 page 3 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **6.EE.1 6.EE.2 6.EE.3 6.EE.4 6.EE.5 6.EE.6 6.EE.7 6.EE.8 6.EE.9** | I read and write expressions with variables. I test single- step one-variable equations, given a set.  | I read, write, and evaluate expressions with variables.I write equivalent expressions.I solve single-step one-variable equations.I test inequalities, given a set.  | I read, write, and evaluate expressions with variables and whole-number exponents.I apply properties of operations to write equivalent expressions.I write inequalities, given constraints.I represent and analyze relationships between dependent and independent variables.  | I read, write, evaluate, and compare expressions with variables and whole-number exponents.I interpret relationships between dependent and independent variables in real-world contexts.I understand and interpret expressions, equations, and inequalities in real-world contexts.  |
| **6.G.1 6.G.2 6.G.3 6.G.4** | I solve word problems involving the area of rectangles.I solve word problems involving the surface area and volume of cubes.  | I solve word problems involving the area of rectangles and triangles.I solve word problems involving the surface area and volume of prisms.I identify three- dimensional objects represented as nets composed of rectangles and triangles.I use previous understanding of packing unit cubes.I understand the formula for the volume of a rectangular prism.  | I solve word problems involving the area of polygons.I solve word problems involving the surface area and volume of three-dimensional objects with polygonal faces.I represent three-dimensional figures, using nets made up of rectangles and triangles.I find lengths of polygonal sides drawn in a coordinate plane.  | I solve multistep real-world word problems involving the area of polygons.I solve multistep real-world problems involving the surface area and volume of three-dimensional objects.I extend understanding of the volume formula of a rectangular prism with fractional edge lengths.  |
| **Charting My Progress Math 6 page 4 of 4** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **6.SP.1 6.SP.2 6.SP.3 6.SP.4 6.SP.5** | I describe the differences between uniform and variable data.I display data in line plots and histograms.  | I find the mean, minimum, first quartile, median, third quartile, maximum, and interquartile range.I create a box plot.I recognize that a statistical question has variability.  | I describe the nature and distribution of data in terms of shape, center, spread, and the number of observations.I understand the relationships between measures of center and measures of spread.  | I determine and explain the most appropriate measure of center and measure of variability, based on the shape of the data and the context of the problem.  |

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| **Charting My Progress Math 7 page 1 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **7.RP.1 7.RP.2 7.RP.3** | I identify proportional relationships from relationships between equivalent ratios and percentages.  | I determine proportional relationships by examining tables and graphs.I compute unit rates.I identify unit rates as the constant of proportionality in multiple representations.  | I analyze proportional relationships.I use proportional relationships to solve problems by computing and comparing unit rates.I recognize equivalent ratios.I explain the constant of proportionality in context.I use the constant of proportionality to write an equation.I solve word problems with percentages.  | I analyze and interpret numerical and symbolic proportional relationships.I use proportional relationships to solve complex and multistep problems by comparing rates and ratios.I determine and apply rates.I determine rates from graphs. .  |
| **7.NS.1 7.NS.2 7.NS.3** | I use addition, subtraction, multiplication, and division to solve single-step word problems involving positive fractions and decimals.  | I use visual representations to add and subtract rational numbers.I use algorithms to add, subtract, multiply, and divide integers.I convert a fraction to a decimal via long division.  | I apply understanding of fractions and decimals to fluently use all four operations with rational numbers.I recognize and use additive inverses, absolute value, and properties of operations to solve real-world word problems with rational numbers.  | I apply understanding of all four operations with rational numbers to solve multistep real-world problems.I use fractions and decimals interchangeably.  |
| **Charting My Progress Math 7 page 2 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **7.EE.1 7.EE.2 7.EE.3 7.EE.4** | I use one or more properties of operations to combine like terms in an expression.I write a single-step equation to solve a word problem.  | I use a property of operations, such as the distributive property, to generate linear expressions.I solve two-step word problems with rational numbers.  | I use properties of operations to generate equivalent expressions to solve multistep word problems with rational coefficients.I use variables to represent quantities in multistep problems.I solve word problems with equations and inequalities requiring two-step solutions.  | I use multiple properties of operations to strategize and generate equivalent expressions.I use multiple properties of operations to solve complex multistep word problems with rational coefficients.I use variables to represent quantities in complex multistep word problems with equations and inequalities requiring multistep solutions.I interpret solutions in context.  |
| **7.G.1 7.G.2 7.G.3 7.G.4 7.G.5 7.G.6** | I draw and describe specific polygons with labeled vertices.I identify the sides and angles of specific polygons.I identify the vertices, edges, and faces of a rectangular prism.  | I construct a specific geometric figure, such as a line, polygon, circle, or solid.I describe a relationship between the sides and angles of specific polygons.I describe the vertices, edges, and faces of a rectangular prism.I describe the surface area of a rectangular prism as the sum of the areas of its six rectangular faces.I use formulas to find the area and circumference of circles.  | I describe geometric figures and the relationships between them, including two- dimensional cross sections.I write and solve mathematical problems involving angle measure, area, surface area, and volume.  | I create geometric figures and analyzes and compares their general properties.I solve complex multistep problems involving angle measure, area, surface area, and volume of composite polygons and solids.  |
| **Charting My Progress Math 7 page 3 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **7.SP.1 7.SP.2 7.SP.3 7.SP.4 7.SP.5 7.SP.6 7.SP.7 7.SP.8** | I distinguish between populations and samples.I understand probability as a number between 0 and 1.I understand samples can be used to gain information about a population.  | I calculate simple probability.I compare experimental and theoretical probabilities.I use random sampling to draw inferences about a population.I understand likelihood on a continuum of 0 to 1.  | I use random sampling to draw comparative inferences about two populations.I develop, use, and evaluate probability models.I use a variety of tools to find probabilities of compound events, including simulations.  | I use multiple samples to draw inferences about a population.I draw interpretive comparative inferences about multiple populations.I investigate experimental and theoretical probabilistic reasoning processes.I develop, use, and evaluate multiple probability models.  |

**Student Personal Learning Goals – Middle School Mathematics Edition**

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| **Charting My Progress Math 8 page 1 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **8.NS.1 8.NS.2** | I recognize irrational numbers as a category distinct from rational numbers.  | I recognize examples of irrational numbers as square roots of non-perfect squares or cube roots of non-perfect cubes.I write approximations of irrational numbers to the nearest whole number.  | I interpret irrational numbers as nonterminating or nonrepeating decimals or as constants such as π.  | I recognize that irrational numbers are not expressible as a quotient of any two rational numbers.I write approximations of irrational numbers as a sequence of calculations that approach but do not reach the number. |
| **8.EE.1 8.EE.2 8.EE.3 8.EE.4 8.EE.5 8.EE.6 8.EE.7 8.EE.8** | I calculate the value of a base with a negative integer exponent.I represent whole- number multiples of ten in scientific notation.I identify equivalent ratios.  | I recognize and use integer exponents.I express quantities in scientific notation.I find the slope of a graph and relates it to proportional reasoning.I understand the meaning of equations with two variables.I know how to use equations with two variables to solve problems.  | I understand and apply the properties of integer exponents. I understand and apply the properties of numbers in scientific notation. I make connections between proportional relationships, the slope of a graph, and triangle similarity.I solve linear equations and systems of linear equations.I solve word problems with two linear equations in two variables.  | I understand, apply, and interpret the properties of integer exponents.I understand, apply, and interpret the properties of scientific notation.I understand, apply, and interpret the properties of operations in scientific notation.I graph proportional relationships in multiple ways.I understand, apply, and interpret the relationship between similar triangles.I understand, apply, and interpret and the slope of a graph.I interpret, analyze, graph, and solve linear equations in two variables.I solve complex multistep word problems involving systems of linear equations.  |
| **Charting My Progress Math 8 page 2 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **8.F.1 8.F.2 8.F.3 8.F.4 8.F.5** | I distinguish between relations that are functions and relations that are not.  | I identify and define linear functions.I use functions to model relationships between two quantities.  | I define, evaluate, compare, and use functions to model relationships between quantities, in multiple representations.  | I define, analyze, compare, and use functions to model relationships between quantities.I identify characteristics of different types of functions.  |
| **8.G.1 8.G.2 8.G.3 8.G.4 8.G.5 8.G.6 8.G.7 8.G.8 8.G.9** | I recognize congruence and similarity and distinguishes between them.I find the hypotenuse of a right triangle whose sides are Pythagorean triples.I recognize single transformations.  | I recognize and identify congruence and similarity using physical models, transparencies, or geometry software.I apply the Pythagorean theorem in two dimensions.I recognize and apply sequences of congruent transformations.  | I understand congruence and similarity using physical models, transparencies, or geometry software.I understand and apply the Pythagorean theorem and its converse, in two dimensions.I describe sequences of transformations, including dilations.I apply the formulas of volume.  | I understand and analyze congruence and similarity using physical models, transparencies, or geometry software.I interpret and apply the Pythagorean theorem in three dimensions.I apply volume to real-world problems.I explain a proof of the Pythagorean theorem.  |
| **Charting My Progress Math 8 page 3 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **8.SP.1 8.SP.2 8.SP.3 8.SP.4** | I recognize association in bivariate data.  | I recognize and describe association in bivariate data.  | I construct and describe bivariate data in a two-way table.I recognize, describe, and investigate patterns of association in bivariate data.  | I describe, analyze, and investigate patterns of association in bivariate categorical data in a two- way table.  |

**Student Personal Learning Goals – Algebra 1 Edition**

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **N.Q.1 N.Q.2 N.Q.3** | I use numbers and units to solve problems.  | I reason with numbers.I use units to solve problems.  | I reason quantitatively.I use units to solve problems.  | I reason analytically and quantitatively.I interpret, represent, and use units to solve problems.  |
| **N.RN.2 N.RN.3** | I identify rational and irrational numbers.  | I use rational and irrational numbers.I rewrite expressions involving square roots.  | I interpret and use properties of rational and irrational numbers.I rewrite expressions involving square roots.  | I interpret, explain, and use properties of rational and irrational numbers.I rewrite expressions involving square roots.  |
| **S.ID.1 S.ID.2 S.ID.3 S.ID.5 S.ID.6 S.ID.7 S.ID.8 S.ID.9** | I represent data on a single count or measurement variable.  | I represent and interpret data on a single count or measurement variable.  | I summarize, represent, and interpret data on a single count or measurement variable.I summarize, represent, and interpret data on two categorical and quantitative variables.I interpret linear models.  | I summarize, represent, and interpret data on single count and measurement variables.I summarize, represent, and interpret data on two categorical and quantitative variables.I interpret and analyze linear models.  |
| **Charting My Progress Algebra 1 page 2 of 3** |
| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **A.SSE.1 A.SSE.2 A.SSE.3 A.APR.1 A.CED.1 A.CED.2 A.CED.3 A.CED.4 A.REI.1 A.REI.3 A.REI.4 A.REI.5 A.REI.6 A.REI.10 A.REI.11 A.REI.12** | I identify equations that describe numbers.I solve equations in one variable.  | I understand the structure of expressions.I identify equations that describe numbers or relationships.I create equations that describe relationships.I understand solving equations as a process of reasoning.I solve and graph systems of equations.  | I interpret the structure of expressions.I write expressions in equivalent forms to solve problems.I perform arithmetic operations on polynomials.I create equations that describe numbers or relationships.I understand solving equations as a process of reasoning.I explain the reasoning and solve and graph equations and inequalities with one or two variables.I explain the reasoning and solve and graph systems of equations with two variables.  | I interpret and analyze the structure of expressions.I represent and write expressions in equivalent forms to solve problems.I understand and use arithmetic operations on polynomials.I create and represent equations that describe numbers and relationships.I understand solving equations as a process of reasoning.I explain my reasoning, solve and graph multistep equations and inequalities with one or two variables and systems of equations with two variables, in context.  |
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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **F.IF.1 F.IF.2 F.IF.3 F.IF.4 F.IF.5 F.IF.6 F.IF.7 F.IF.9** | I identify and define a function.  | I understand the concept of a function.I use function notation.  | I interpret functions by understanding the concept of a function.I use function notation.I interpret functions that arise in applications in terms of the context.I analyze functions using different representations. | I interpret and analyze functions by understanding the concept of a function.I recognize and use contextual forms of function notation.I interpret functions that arise in applications in terms of contexts.I analyze functions using multiple representations.  |
| **F.BF.1 F.BF.2 F.BF.3** | *No descriptor* | I build functions from models of a relationship between two sets of data.  | I build functions that model a relationship between two quantities.I build functions from existing functions.  | I build functions that model a relationship between two quantities or contexts.I build and test functions from existing functions.  |
| **F.LE.1 F.LE.2 F.LE.3 F.LE.5** | *No descriptor* | I compare linear and exponential models.  | I construct and compare linear and exponential models.I solve problems.I interpret expressions for functions in terms of the situation they model.  | I construct, compare, and analyze linear and exponential models.I solve complex problems.I represent, interpret, and translate expressions for functions in terms of the situation they model.  |

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| **G.CO.1 G.CO.2 G.CO.3 G.CO.4 G.CO.5 G.GPE.4 G.GPE.5 G.GPE.6 G.GPE.7** | I understand angles, circles, perpendicular lines, parallel lines, and line segments.  | I understand and represent transformations in the plane. .  | I experiment with transformations in the plane.I use coordinates to prove simple geometric theorems algebraically. | I understand, interpret, use, and experiment with transformations in the plane to demonstrate knowledge of and analyze congruence in terms of transformations.I use coordinates to prove geometric theorems algebraically.  |
| **G.CO.6 G.CO.7 G.CO.8 G.CO.9 G.CO.10 G.CO.11 G.CO.12 G.CO.13** | I identify rigid transformations.  | I use transformations in the plane as a way to understand and represent congruence.I apply geometric theorems.I identify geometric constructions.  | I understand congruence in terms of rigid motions.I prove geometric theorems.I make geometric constructions.  | I interpret, analyze, and understand congruence in terms of rigid motions.I prove geometric theorems.I use geometric constructions to solve problems in context.  |
| **G.SRT.1 G.SRT.2 G.SRT.3 G.SRT.4 G.SRT.5 G.SRT.6 G.SRT.7 G.SRT.8** | I identify similarity figures.I use the Pythagorean theorem.  | I recognize and identify similarity transformations.I use trigonometric ratios to solve simple problems with right triangles.  | I understand similarity in terms of similarity transformations.I prove theorems involving similarity.I define trigonometric ratios.I solve problems involving right triangles.  | I analyze and understand similarity in terms of similarity transformations.I prove theorems involving similarity.I interpret and define trigonometric ratios.I solve multistep problems involving right triangles.  |

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| **G.C.1 G.C.2 G.C.3 G.C.4 G.C.5** | I calculate the circumference and area of a circle.  | I understand theorems about circles.I find simple arc lengths and areas of sectors of circles.  | I understand and apply theorems about circles.I use theorems about circles in context.I use arc lengths and areas of sectors of circles to solve problems.  | I understand, interpret, use, and experiment with transformations in the plane to demonstrate knowledge of and analyze congruence in terms of transformations.I use coordinates to prove geometric theorems algebraically.  |
| **G.GPE.1 G.GPE.4** | I identify the center and radius of a circle from a graph.  | I identify the center and radius of a circle from an equation.  | I translate between the geometric description and the equation for a circle.I use coordinates to prove simple geometric theorems algebraically. | I translate between the geometric description and the equation for a circle.I interpret and use coordinates to prove simple geometric theorems algebraically.  |
| **G.MD.1 G.MD.2 G.MD.3 G.MD.4 G.MG.1 G.MG.2 G.MG.3**  | I calculate volume.  | I use volume formulas to solve problems.I visualize two- dimensional and three- dimensional objects.I select geometric concepts to model situations.  | I explain volume formulas.I use volume formulas to solve problems.I visualize relationships between two-dimensional and three- dimensional objects.I apply geometric concepts in modeling situations.  | I explain volume formulas.I use volume formulas to solve complex problems.I visualize relationships between two- dimensional and three- dimensional objects.I apply geometric concepts in modeling situations with multiple constraints.  |

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| **S.ID.6 S.CP.1 S.CP.2 S.CP.3 S.CP.4 S.CP.5 S.CP.6 S.CP.7** | I represent data with quantitative variables.I calculate the probability of independent events.  | I represent data with two categorical and quantitative variables.I calculate the probabilities of independent and dependent events  | I summarize, represent, and interpret data on two categorical and quantitative variables.I understand independence and conditional probability and uses them to interpret data.I use the rules of probability to compute probabilities of compound events in a uniform probability model.  | I summarize, represent, and interpret data on two categorical and quantitative variables.I understand and interpret independence and conditional probability and uses them to represent and interpret data.I use the rules of probability to understand and compute probabilities of compound events in a uniform probability model  |