**Student Personal Learning Goals – Checking 4/Building Background Knowledge Middle School Mathematics Edition**

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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.  |

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

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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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| **Charting My Progress Algebra 1 page 1 of 3** |
| **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.  |
| **Charting My Progress Algebra 1 page 3 of 3** |
| **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.  |