Charting My Progress – with **Grade 3 Math**

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| NNS | I can write and represent six-digit whole numbers with models.  I can read and write four-digit whole numbers.  I can identify a number greater than, less than, or equal to a whole number  identify fractions using models. | I can read and write six-digit whole numbers.  I can compare whole numbers using words.  I can round whole numbers to greatest place value.  I can identify and name fractions using models | I can interpret place value for six-digit whole numbers.  I can round and compare whole numbers.  I can model, name, and compare fractions and mixed numbers. | I can describe place value relationships.  I can create number sentences comparing whole numbers or fractions and mixed numbers.  I can use models to represent fractions and mixed numbers.  I can relate improper fractions to mixed numbers. |
| CE | I can identify related multiplication and division facts.  I can recall multiplication facts for 0 and 1.  I can recognize multiplication models.  I can add and subtract two three-digit whole numbers without regrouping.  I can add fractions using models. | I can complete related multiplication and division facts.  I can recall some multiplication facts.  I can identify multiplication and division facts represented by models.  I can identify models representing the sum and difference of two whole numbers.  I can add and subtract two whole numbers without regrouping.  I can compare the sum and difference of fractions with like denominators using models. | I can add, subtract, multiply, and divide whole numbers to solve single-step problems.  I can estimate, add, and subtract whole numbers to solve multistep problems.  I can represent multiplication and division facts using models.  I can recall multiplication facts (0,1,2,5,10).  I can add and subtract proper fractions with like denominators (up to 12) to solve problems. | I can apply related multiplication and division facts to solve practical problems.  I can recall, represent, and apply multiplication and division facts.  I can create and solve multistep practical problems using sums and differences of whole numbers.  I can generalize rules to add and subtract fractions (like denominators) |
| MG | I can identify values of coins and bills.  I can count sets of coins and bills up to $2.  I can identify words representing units of measure.  I can measure length to nearest inch.  I can identify hour/minute hands on a clock.  I can tell time to nearest hour.  I can identify number of days in one week and number of months in one year.  I can name a polygon with 3, 4, or 5 sides.  I can identify congruent concrete models of geometric figures. | I can count sets of coins and bills.  I can measure length to nearest ½-inch.  I can count squares to determine area.  I can tell time to nearest five minutes.  I can identify number of minutes in an hour, hours in a day, and months in a year.  I can read temperature to nearest degree on a thermometer.  I can identify lines and line segments.  I can name polygons.  I can identify congruent and noncongruent figures (same orientation). | I can compare values of sets of coins and bills.  I can make change from $5 or less.  I can measure length, perimeter, and liquid volume.  I can find the area of a figure.  I can tell time to nearest minute.  I can find equivalent periods of time and elapsed time in one-hour increments.  I can read temperature to nearest degree, with scale increments of one or two degrees.  I can identify points, rays, angles, lines, and line segments.  I can name, combine, and subdivide polygons.  I can identify congruent and noncongruent figures. | I can compute change from $5.  I can determine appropriate units of measure.  I can solve problems involving length, liquid volume, perimeter, and area.  I can determine elapsed time and equivalent periods of time to solve problems.  I can interpret temperature models.  I can combine and subdivide polygons and describe the results.  I can describe representations of geometric figures |
| PS  PFA | I can identify an outcome given a pictorial representation of an event with up to four possible outcomes.  I can identify bar graphs/pictographs.  I can collect data to answer a question.  I can recognize repeating patterns using models.  I can identify symbols (= and ≠) used to represent mathematical relationships. | I can identify probabilities with impossible and certain events.  I can collect, organize, and read data represented in graphs.  I can recognize and describe repeating patterns.  I can identify number sentences representing equivalent relationships. | I can identify outcomes and likelihood of an event.  I can construct and interpret bar graphs and pictographs.  I can describe and extend patterns.  I can represent equivalent and non-equivalent relationships with number sentences. | I can analyze outcomes and make predictions for probability scenarios.  I can design data investigations.  I can analyze graphs, and formulate questions related to graphs.  I can create and extend patterns.  I can create equations to represent equivalent mathematical relationships. |

Charting My Progress – with **Grade 4 Math**

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| NNS | I identify whole numbers, fractions, and decimals using concrete materials.  I name comparison symbols (<, >, =).  I round a whole number to the greatest place value. | I identify place and value of digits in whole numbers and decimals.  I round and compare whole numbers.  I use models to compare decimals or fractions.  I identify the fraction bar as a division symbol. | I read, write, round, compare, and order:   1. whole numbers, 2. decimals, 3. fractions, and 4. mixed numbers   I represent fraction/fraction and fraction/decimal equivalence.  I relate fractions to division. | I apply place value relationships and fraction and decimal equivalence to solve problems involving:   1. rounding, 2. comparing, and 3. ordering   with:   1. whole numbers, 2. decimals, 3. fractions, and 4. mixed numbers   I can use fraction/decimal and fraction/fraction equivalence to solve problems.  I can use division statements and fractions interchangeably to:   1. create, 2. represent, and 3. solve problems |
| CE | I can add and subtract aligned whole numbers and decimals without regrouping  I can add fractions with like denominators | I can recall basic multiplication facts up to 10x10.  I can add and subtract decimals that are aligned.  I can determine factors and multiples of a number.  I can add and subtract fractions with like denominators. | I can recall basic multiplication and division facts.  I can add, subtract, multiply, and divide whole numbers to estimate and solve single-step and multistep practical problems.  I can add and subtract decimals to estimate and solve single-step and multistep practical problems.  I can add and subtract fractions to estimate and solve single-step and multistep practical problems.  I can find common multiples and factors of two numbers, including:   1. least common multiple and 2. greatest common factor | I can apply mathematical properties to create and solve single-and multistep practical problems with:   1. whole numbers, 2. decimals, and 3. fractions   I can find least common multiple and greatest common factor of a set of numbers |
| MG | I can recognize units of measure.  I can identify time on a digital and an analog clock.  I can determine the perimeter or area of a rectangle given a figure with measurements.  I can identify concrete models of cubes, cones, cylinders, points, lines, line segments, rays, and angles.  I can identify figures that are squares and figures that are not squares | I can measure objects for length, weight, mass, and liquid volume.  I can determine elapsed time in hours given beginning and ending times.  I can identify squares and rectangles.  I can determine perimeter or area of a given square or rectangle with measurements.  I can identify solid geometric figures, points, lines, line segments, rays, and angles from pictures.  I can identify parallel, perpendicular, and intersecting lines | I can find area and perimeter of rectangles and squares.  I can estimate measures.  I can measure objects.  I can solve practical problems given unit measure involving:   1. length, 2. weight, 3. mass, and 4. liquid volume   I can find elapsed time in hours and minutes.  I can describe and contrast characteristics of solid and plane geometric figures.  I can classify quadrilaterals | I can solve practical area and perimeter problems.  I can apply equivalent measures to solve practical problems involving:   1. length, 2. weight, 3. mass, and 4. liquid volume   I can solve practical problems involving elapsed time.  I can compare, contrast, and create representations of solid and plane figures.  I can compare and contrast quadrilaterals. |
| PS  PFA | I can identify events that are "certain" and "impossible" to occur.  I can identify a bar graph and a line graph.  I can identify repeating patterns using models or concrete materials.  I can identify that an equation must have an equal sign. | I can identify an event’s likelihood.  I can match a probability event represented in a picture to its fraction  equate "0" with an impossible event and "1" with a certain event.  I can construct and display data in bar graphs and line graphs.  I can match data to graphs.  I can identify and extend repeating patterns using models.  I can determine if two numerical expressions are equal. | I can describe outcomes of events.  I can represent probability using:   1. words, 2. fractions, 3. number lines, and 4. models   I can construct, organize, and interpret bar graphs and line graphs.  I can compare representations of the same data.  I can recognize and extend numerical and pictorial patterns.  I can demonstrate equality in equations. | I can evaluate experiments to determine and represent probability using:   1. likelihood, 2. fractions, 3. number lines, 4. models, and 5. practical problems   I can analyze different representations of the same data to solve problems.  I can analyze and extend numerical patterns.  I can represent equivalent relationships in equations |

Charting My Progress – with **Grade 5 Math**

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| NNS | I can round whole numbers.  I can compare and order fractions with like denominators.  I can compare decimals with the same number of place values represented.  I can identify single-digit odd and even numbers. | I can round decimals to the nearest tenth.  I can compare and order decimals.  I can compare and order fractions.  I can use manipulatives to represent equivalent fractions and decimals.  I can identify prime and composite numbers less than 20. | I can round decimals to the nearest whole number, tenth, and hundredth.  I can compare and order fractions and decimals.  I can identify fraction/decimal equivalence.  I can describe odd, even, prime, and composite numbers and describe the sum or difference as odd/even. | I can round decimals to the nearest whole number, tenth, and hundredth.  I can represent and compare fraction/decimal relationships, including repeating decimals.  I can explain prime, composite, even, and odd numbers and describe the sum or difference as odd/even. |
| CE | I can add, subtract, multiply and divide whole numbers to solve equations.  I can add and subtract simple fractions with like denominators.  I can list the order of operations. | I can add, subtract, multiply and divide whole numbers.  I can add and subtract decimals.  I can add and subtract simple fractions.  I can identify the first step when using the order of operations. | I can add, subtract, multiply and divide decimals.  I can add and subtract fractions and mixed numbers.  I can multiply a whole number by a fraction.  I can simplify numerical expressions using order of operations. | I can create and solve practical problems with:   1. whole numbers, 2. decimals, 3. fractions, and 4. mixed numbers   I can simplify numerical expressions having parentheses using order of operations. |
| MG | I can identify:   1. squares, 2. rectangles, and 3. triangles   I can calculate perimeter and area of:   1. squares and 2. rectangles   I can identify parts of a circle.  I can determine elapsed time to the nearest hour.  I can identify right and straight angles.  I can recognize congruent transformations. | I can calculate perimeter and area of:   1. squares, 2. rectangles, and 3. triangles   I can describe parts of a circle.  I can determine elapsed time to the nearest quarter hour.  I can measure angles.  I can identify:   1. acute, 2. obtuse, 3. right, and 4. straight angles   I can identify translations and reflections. | I can find area and perimeter of:   1. squares, 2. rectangles, and 3. triangles   I can find volume of rectangular solids.  I can identify equivalent metric measurements.  I can describe the relationship between parts of a circle.  I can determine elapsed time to the nearest minute.  I can measure angles.  I can classify angles and triangles  I can identify transformations. | I solve practical problems involving area and perimeter of plane figures.  I can solve practical problems involving volume of rectangular solids.  I can use relationships between parts of a circle to determine unknown measures.  I can solve elapsed time practical problems.  I can determine unknown angle measures in triangles.  I can apply transformations.  .  I can subdivide and combine polygons. |
| PS  PFA | I can display data in charts and tables.  I can understand that mean is a fair share.  I can recognize patterns in shapes or pictures.  I can identify the variable in an expression. | I can identify equally likely events.  I can display data.  I can determine mean and mode.  I can identify patterns.  I can identify variables in expressions and equations. | I can construct:   1. charts, 2. tables, 3. stem-and-leaf plots, and 4. line plots   I can determine mean, median, mode, and range.  I can subdivide and combine polygons.  I can apply the Fundamental Counting Principle or construct a sample space to determine probability.  I can extend patterns.  I can represent mathematical relationships with a variable in expressions and equations. | I can determine probability using Fundamental Counting Principal or sample space.  I can interpret data represented in stem-and-leaf plots and line plots.  I can determine mean, median, mode, and range.  I can solve practical problems using patterns.  I can use variables and equations to represent mathematical relationships.  I can create word problems to represent a given equation. |

Charting My Progress – with **Grade 6 Math**

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| NNS | I can define ratio as the comparison of two quantities.  I can use a pictorial model to represent numbers in fraction, decimal, or percent form.  I can identify positive and negative numbers on a number line.  I can identify powers of ten by recognizing patterns.  I can identify the base and exponent of an exponential expression.  I can use inequality symbols to represent the relationship between integers modeled on a number line. | I can recognize ratios using fractions, colons, or the word *to* represent equivalencies between decimals, fractions, and percents.  I can represent integers on a number line.    I can identify the absolute value of whole numbers.  I can represent an exponential as repeated multiplication.  I can use manipulatives to identify perfect squares. | I can compare quantities with ratio notation.    I can compare and order integers and positive rational numbers.    I can describe equivalencies among decimals, fractions, and percents using various representations and symbols.  I can describe absolute value of integers.    I can represent patterns with exponents and perfect squares. | I can apply ratios to practical problems.  I can compare and order positive rational numbers, including percents written in fraction and decimal form.    I can apply integers and absolute value to a practical context.    I can model perfect squares.  I can identify two or more ways to represent a given number using exponents. |
| CE | I can add, subtract, multiply, and divide basic fractions.  I can define the order of operations process used for simplifying numerical expressions.  I can use manipulatives to add integers. | I can add, subtract, multiply, and divide proper fractions.    I can apply the order of operations to simplify a whole number expression.  I can use manipulatives to add and subtract integers. | I can model the product and quotient of fractions and mixed numbers.    I can multiply/divide mixed numbers.  I can solve multistep practical problems involving fractions, mixed numbers, and decimals.  I can simplify numerical expressions involving integers. | I can solve multistep practical problems involving fractions, mixed numbers, decimals, and integers. |
| MG | I can define 3.14 and 22/7 as approximations for pi.  I can identify the origin and x- and y-axis on the coordinate plane.  I can find the perimeter of a labeled figure.    I can identify polygons as congruent or not congruent. | I can identify relationships between parts of a circle and define pi as a ratio.    I can apply formulas to problems involving area and perimeter of rectangles and triangles.  I can identify the coordinates of a point and the four quadrants.    I can verify the congruence of polygons and angles.  I can identify a line of symmetry, | I can solve practical problems involving the area and perimeter of rectangles and triangles.  I can solve practical problems involving the circumference and area of circles.  I can use coordinates to graph points and identify the corresponding quadrant and axis.  I can identify regular polygons and lines of symmetry.  I can determine congruence of segments, angles, and polygons. | I can describe and explain the derivation of pi.    I can solve multistep practical problems involving the area and perimeter of rectangles and triangles.  I can solve multistep practical problems involving circumference and area of circles.    I can describe relative locations of points in a coordinate plane.  I can describe corresponding parts of a figure that is congruent to a given figure. |
| PS  PFA | I can read data represented in bar graphs, line graphs, and circle graphs.  I can define mean as an average.  I can find a missing value in a ratio table when given the unit rate.  I can describe an algebraic expression. | I can interpret data represented in a circle graph.  I can describe the three measures of center.  I can determine whether a proportional relationship exists between two quantities.  I can solve one-step equations with models.  I can describe the solution set to an inequality. | I can create circle graphs and make predictions.  I can represent the mean and the effect of adding, removing, or changing one value in a data set.  I can represent a proportional relationship from a practical situation, table, and graph.  I can make connections between two proportional relationships.  I can solve one-step linear equations.  I can solve and graph one-step inequalities. | I can create circle graphs to represent practical situations.  I can solve practical problems using circle graphs and relate circle graphs to other types of graphs.  I can solve practical problems involving changes in data and measures of center.    I can apply proportional relationships to solve practical problems.  I can solve practical problems using linear equations.  I can represent and graph practical problems using inequalities. |

Charting My Progress – with **Grade 7 Math**

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| NNS/CE | I can identify negative powers of ten for numbers between zero and one.  I can identify numbers in scientific notation, perfect squares, and the absolute value of a whole number.  I can add, subtract, multiply, and divide rational numbers expressed in the same format.  I can identify equivalent ratios. | I can identify the decimal or fraction equivalent of negative powers of ten.    I can compare and order fractions, decimals, and percents.  I can compare two numbers written in scientific notation.    I can identify perfect squares to 100.  I can determine the absolute value of an integer.    I can solve practical problems involving whole numbers and decimals.  I can write a proportion to represent a practical proportional relationship. | I can represent negative powers of ten in fraction and decimal form.  I can represent numbers in scientific notation.  I can compare and order rational numbers.  I can identify perfect squares from 0 to 400.  I can describe and determine absolute value of rational numbers.  I can solve practical problems involving rational numbers.  I can use proportional reasoning to solve problems. | I can convert between numbers written in scientific notation, fraction, and decimal form.  I can compare, order, and solve practical problems involving rational numbers.  I can apply knowledge of perfect squares and square roots.  I can use absolute value to solve practical problems.  I can apply proportional reasoning to solve multistep practical problems. |
| MG | I can determine the volume of a prism or cylinder when given a labeled figure.  I can identify corresponding parts of similar quadrilaterals and triangles.  I can identify and sort types of quadrilaterals when given figures.  I can distinguish between a translation and a reflection of a figure. | I can determine the volume of prisms and cylinders when given a figure.  I can write similarity statements to represent corresponding parts of similar quadrilaterals and triangles.  I can identify characteristics of parallelograms, rectangles, rhombi, and trapezoids.  I can identify the image of a figure that has been translated or reflected. | I can describe and determine the volume and surface area of prisms and cylinders.  ?I can solve practical problems involving prisms and cylinders.  I can determine missing side lengths and angles of similar quadrilaterals and triangles.  I can sort and classify quadrilaterals based on their characteristics.  I can sketch a right triangle or rectangle that has been reflected and/or translated. | I can solve practical problems involving applications of surface area and volume of prisms and cylinders.  I can solve practical problems involving similar quadrilaterals and triangles.  I can compare and contrast quadrilaterals based on their properties.  I can apply translations and reflections to a right triangle or rectangle. |
| PS/PFA | I can construct a histogram when given predetermined intervals.  I can identify *m* as the slope in *y = mx* and *b* as the y-intercept in  *y = x + b* equations.  I can evaluate expressions given one whole number replacement value, with operations limited to addition, subtraction, multiplication, and division.  I can identify the first step used to solve a two-step linear equation and a one- or two-step inequality. | I can compute theoretical and experimental probabilities.  I can construct and identify data in a histogram.  I can determine the slope or y-intercept of a graphed line or a given equation.  I can evaluate expressions for given integer replacement values.  I can solve two-step linear equations and one-step inequalities limited to whole number coefficients, constants, and solutions. | I can determine theoretical and experimental probability.  I can analyze histograms.  I can determine the slope and y-intercept from a table or graph and write the related equation.  I can graph lines given slope and y-intercept.  I can evaluate expressions for given rational number replacement values.  I can solve two-step linear equations and one- and two-step linear inequalities. | I can describe the difference between experimental and theoretical probability.  I can make comparisons and inferences when given a histogram and other graphical representations of the same data set.  I can graph linear equations in the form *y = mx* and *y = x + b* and make connections among multiple representations.  I can evaluate multistep expressions with three replacement values.  I can solve linear equations and inequalities and graph solutions to inequalities. |

Charting My Progress – with **Grade 8 Math**

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| **Standard** | **Emerging (1)** | **Developing (2)** | **Proficient (3)** | **Distinguished (4)** |
| NNS/CE | I can compare fractions and decimals.  I can identify natural numbers, whole numbers, and integers.  I can use manipulatives to recognize perfect squares.  I can solve practical problems involving fractions, decimals, and integers. | I can compare and order rational numbers.  I can identify natural numbers, whole numbers, and integers.  I can determine the positive square root of a perfect square.  I can solve practical problems involving rational numbers, percents, and proportions. | I can compare and order real numbers.  I can classify numbers belonging to subsets of real numbers.  I can compute percent increase and percent decrease.  I can determine between which two integers a square root lies.  I can solve practical consumer application problems. | I can describe differences among and discriminate between numbers in the subsets of real numbers.  I can solve practical problems involving simple interest and new balance of investments and loans. |
| MG | I can define and recognize acute, obtuse, right, and straight angles.  I can determine the areas of circles, triangles, and rectangles.  I can determine the volume/surface area of a rectangular prism given a labeled figure.  I can identify the image of a polygon resulting from a single transformation.  I can use manipulatives to describe the views (top/front/side) of a three-dimensional figure.  I can define the Pythagorean Theorem. | I can recognize and determine supplementary and complementary angles.  I can determine the volume and surface area of cones and square based pyramids.  I can identify and apply translations and reflections of right triangles and rectangles.  I can identify a 3D model given 2D views.  I can label hypotenuse and legs of a right triangle. | I can describe relationships among angles.  I can solve practical problems involving volume and surface area of cones and pyramids.  I can describe effect of changing one attribute of rectangular prism.  I can apply transformations to polygons.  I can construct 3D models from 2D views.  I can apply Pythagorean Theorem to determine the unknown side of a right triangle.  I can determine the area and perimeter of composite figures. | I can solve practical problems involving angle relationships.  I can solve practical problems involving surface area and volume problems with cones and pyramids.  I can describe how changing one dimension of a rectangular prism affects volume and surface area.  I can describe how transformation affects congruency, orientation, location, and symmetry of an image.  I can identify and generate practical applications of transformations  solve problems using Pythagorean Theorem.  I can apply perimeter, circumference, and area formulas to solve practical problems involving composite figures. |
| PS/PFA | I can determine the probability of a simple event.  I can name the dependent and independent variables represented in a scatterplot.  I can apply the order of operations to numerical expressions.  I can simplify algebraic expressions using manipulatives.  I can define domain and range.  I can recognize the slope of a linear function as positive, negative, or zero.  I can make connections between tables and ordered pairs.  I can represent two-step linear equations using pictorial representations.  I can solve and graph one-step linear inequalities. | I can determine probability of two independent events.  I can define a dependent event.  I can represent data in boxplots and scatterplots.  I can apply order of operations.  I can simplify algebraic expressions.  I can determine independent and dependent variables from ordered pairs or a table of values.  I can identify the slope and *y*-intercept of an equation in *y = mx + b* form.  I can graph linear equations given a table.  I can make connections between graphs and tables.  I can solve two-step linear equations.  I can solve and graph two-step linear inequalities. | I can determine probability of two independent and dependent events.  I can make inferences from boxplots.  I can construct scatterplots to determine line of best fit.  I can evaluate algebraic expressions.  I can determine domain/range and if a function exists.  I can determine the independent and dependent variable from practical linear situations.  I can identify slope and *y*-intercept given a table and graph.  I can graph linear equations in  *y = mx + b* form.  I can make connections among various forms of linear functions.  I can graph and solve multistep linear equations and inequalities. | I can compare and contrast probability of independent and dependent events.  I can compare and analyze two data sets using boxplots.  I can compare different representations of the same relation.  I can differentiate between independent and dependent variables.  I can write a linear equation given slope and *y*-intercept or a practical linear situation.  I can solve practical problems involving multistep linear equations and inequalities.  I can differentiate between the solution of an equation and solutions of an inequality. |

Charting My Progress – with **Algebra I**

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| **Standard** | **Developing (1)** | **Proficient (2)** | **Distinguished (3)** |
| Expressions/ Operations | I can identify verbal phrases that represent algebraic expressions.  I can substitute values into expressions.  I can identify the square root of a perfect square.  I can identify the cube root of a perfect cube.  I can represent polynomial expressions using concrete and pictorial representations.  I can add/subtract polynomials.    I can add/subtract two monomial radicals with like radicands.  I can factor a numerical greatest common factor from a polynomial expression | I can translate between verbal and algebraic expressions.  I can evaluate expressions for given replacement values.  I can simplify square roots of whole numbers and monomial expressions.  I can simplify cube roots of integers.  I can perform operations on two monomial radical expressions.  I can determine sums, differences, and products of polynomial expressions and quotients using a monomial, binomial, or factored divisor.  I can factor polynomial expressions. | I can represent and evaluate practical quantitative situations verbally and algebraically.  I can simplify and perform operations on monomial and polynomial expressions, including monomial expressions that contain square or cube roots with leading coefficients.  I can factor and verify algebraic factorizations of polynomial expressions. |
| Equations/ Inequalities | I can identify solution(s) to:   * 1. systems of linear equations graphically, and   2. systems of linear inequalities graphically   I can identify solution(s), given a graph, to a   * 1. linear equation,   2. linear inequality, and   3. quadratic equation   I can identify the slope and y-intercept given:   * 1. the graph of the line,   2. two points on a graph, or   3. the equation of the line in slope-intercept form   I can write the equation of the line in slope-intercept form given the graph of the line.  I can graph a line given the equation in slope-intercept form. | I can solve:   1. multistep linear equations, 2. linear inequalities, 3. quadratic equations, 4. systems of linear equations, 5. systems of linear inequalities, and 6. one or two-step literal equations   I can represent practical situations involving:   1. systems of linear equations, and 2. systems of linear inequalities   I can graph a linear equation  write the equation of a line given:   1. the graph, 2. two points, and 3. a point and slope | I can solve practical problems involving:   1. multistep linear equations, 2. linear inequalities, 3. literal equations, 4. quadratic equations, 5. systems of linear equations, and 6. systems of linear inequalities   I can describe the effects of linear function transformations defined by changes in the slope or the y-intercept.  I can write the equation of a line given:   1. the graph, 2. two points, and 3. a point and slope   I can graph a linear equation to represent a practical situation |
| Functions/ Statistics | I can identify a direct variation from a graph.  I can use a line of best fit to interpret a set of data.  I can determine the domain and range of a discrete function.  I can determine whether a relation is a function. | I can determine characteristics of linear and quadratic functions, including:   1. domain, 2. range, 3. zeros, and 4. x- and y-intercepts   I can determine the curve of best fit for a set of data.  I can analyze a relation to determine direct or inverse variation.  I can identify multiple representations of functions. | I can analyze characteristics of linear and quadratic functions that involve or describe practical situations including:   1. domain, 2. range, 3. zeros, and 4. x- and y-intercepts   I can analyze models of direct and inverse variation to generate conclusions from practical situations.  I can model and make predictions for a set of data using the curve of best fit.  I can make connections among multiple representations of functions. |

Charting My Progress – with **Geometry**

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| **Standard** | **Developing (1)** | **Proficient (2)** | **Distinguished (3)** |
| Reasoning, Lines, Trans. | I can match a verbal argument to symbolic form.  I can write the converse of a conditional statement.  I can recognize angle relationships formed by two parallel lines and a transversal.  I can recognize basic constructions  identify transformations of figures on a grid. | I can determine validity of a logical argument.  I can solve problems involving angles formed by parallel lines intersected by a transversa.  I can complete basic constructions.  I can use algebraic and coordinate methods to solve problems and prove lines parallel and perpendicular.  I can apply transformations and combinations of transformations. | I can analyze logical arguments using deductive reasoning.  I can apply Euclidean methods to complete multistep constructions.  I can integrate multiple analytical skills, including algebraic operations, to solve problems and/or complete multistep proofs involving:   1. parallel and perpendicular lines, 2. angles formed by parallel lines and transversals, and 3. combinations of transformations |
| Triangles | I can recognize congruence given measurements of two triangles.  I can recognize similarity given measurements of two triangles.  I can apply Pythagorean Theorem to determine existence of a right triangle. | I can compare and order sides and angles in a triangle.  I can find a range of values for a missing side in a triangle.  I can use algebraic and coordinate methods to solve problems and complete deductive proofs involving:   1. similar triangles, 2. congruent triangles, and 3. right triangles (including trigonometric functions) | I can integrate multiple analytical skills, including algebraic operations, to solve problems and/or complete multistep proofs involving:   1. congruent triangles, 2. similar triangles, and 3. right triangles (including trigonometric functions) |
| Polygons, Circles, 3-D Figures | I can identify the center, radius, and diameter given the:   1. equation of a circle, and 2. graph of a circle   I can identify properties of quadrilaterals.  I can compare interior and exterior angles of polygons.  I can recognize relationships between attributes of similar two-dimensional and three-dimensional figures. | I can use algebraic and coordinate methods to solve problems and complete deductive proofs involving:   1. quadrilaterals, 2. polygons, and 3. parts of circles (including chords, secants, and tangents)   I can solve problems using attributes of two-dimensional and three-dimensional figures, including characteristics of similarity. | I can integrate multiple analytical skills, including algebraic operations, to solve problems and/or complete multistep proofs involving:   1. quadrilaterals, 2. polygons, and 3. parts of circles (including chords, secants, and tangents)   I can solve multistep problems involving two-dimensional and three-dimensional figures, including characteristics of similarity. |

Charting My Progress – with **Algebra II**

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| **Standard** | **Developing (1)** | **Proficient (2)** | **Distinguished (3)** |
| Expressions/ Operations | I can add, subtract, and simplify:   1. radical expressions, and 2. polynomial expressions   I can add and subtract:   1. complex numbers having like denominators, and 2. rational expressions having like denominators   I can factor polynomials without a greatest common factor (limited to three terms). | I can simplify and perform operations on:   1. complex numbers, 2. radical expressions, 3. rational expressions, and 4. polynomial expressions.   I can factor polynomials. | I can apply multistep simplification and perform operations on:   1. complex numbers, 2. radical expressions, 3. rational expressions, and 4. polynomial expressions   I can discriminate between methods to efficiently factor polynomials that require multiple steps. |
| Equations/ Inequalities | I can find solutions from graphs of:   1. equations, 2. inequalities, and 3. nonlinear systems of equations | I can solve equations including:   1. absolute value, 2. quadratic, 3. radical, 4. rational equations, and 5. nonlinear systems   I can solve absolute value linear inequalities. | I can interpret, model, and solve practical problems using:   1. equations, 2. inequalities, and 3. nonlinear systems of equations |
| Functions/ Statistics | I can identify characteristics of a function and its family including:   1. zeros, 2. intercepts, and 3. values   I can identify curves of best fit for a data set.  I can identify whether a situation can be represented by a direct or inverse variation.  I can identify a permutation and combination.    I can identify properties of a normal distribution.    I can find the *n*th term or write the first *n* terms of an arithmetic or geometric sequence.    I can identify the graphs of parent functions. | I can determine characteristics of a function, including:   1. zeros, 2. intercepts, 3. factors of polynomial expressions, 4. domain, range, continuity, and discontinuity, 5. interval behavior, 6. asymptotes, and 7. extrema   I can make connections among multiple representations of a function.  I can analyze transformations of parent functions.  I can determine curves of best fit  solve problems involving:   1. permutations and combinations, and 2. joint, inverse, or a combination of variations   I can solve problems and compare normally distributed data sets using:   1. mean, 2. standard deviation, and 3. z-scores   I can determine the *n*th term and write the first *n* terms of an arithmetic or geometric sequence.  I can determine the sum of an arithmetic or geometric series and the sum of a convergent infinite series. | I can analyze characteristics of functions that involve or describe practical situations including:   1. zeros, 2. intercepts, 3. factors of polynomial expressions, 4. domain, range, continuity, and discontinuity, 5. interval behavior, 6. asymptotes, and 7. extrema   I can make connections among multiple representations of a function.  I can analyze transformations of parent functions.    I can determine and interpret curves of best fit.  I can solve practical problems involving:   1. permutations and combinations, and 2. joint, inverse, or a combination of variations   I can apply properties to find the probability associated with areas under the normal curve given practical situations.    I can use z-scores to compare data  model and solve practical problems using sequences and series. |