Math Target - Patterns, Functions and Algebra

Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Pre-Algebra	Algebra
____ I can sort objects in a group by how they are alike or different.	____ I can pick out, show and extend repeating patterns involving up to four things.	____ I can find and make repeating patterns using numbers, letters and shapes.	____ I can find, create and extend repeating patterns using numbers, letters and shapes and explain how to extend those patterns.	____ I can identify number patterns.	____ I can write and solve algebraic expressions.	____ I can apply the correct order of operation and grouping symbols when using a calculator.	____ I can recognize and describe number patterns.	____ I can evaluate a variable expression.
____ I can tell if an object does not belong to a group.	____ I can tell the difference between a growing pattern as opposed to a repeating pattern.	____ I can find and make growing patterns using numbers, letters and shapes.	____ I can find, create and extend growing patterns using numbers, letters and shapes and explain how to extend those patterns.	____ I can extend number patterns.		____ I can write verbal expressions.	___ I can simplify expressions that have grouping symbols.	___ I can write a variable expression that models a real-life situation.
____ I can see a pattern (AB, ABB, AAB, ABC), using objects, pictures, sound, or movement.	____ I can change patterns from one form to another (I.e.pattern blocks to cubes).	___ I can create new shapes by using plane shapes and solid shapes.	____ I can solve open number sentences to balance simple equations.	____ I can solve equations using a variable.		____ I can write algebraic expressions.	___ I can evaluate expressions that contain variables.	___ I can translate verbal phrases into algebraic expressions.
____ I can tell about a pattern in my own words.	____ I can identify the missing number to an equation.			____ I can simplify expressions with addition, subtractions, and multiplication.		____ I can solve verbal expressions.	___ I can use the distributive property.	___ I can use a verbal model to write an algebraic equation or inequality.
____ I can continue/extend a pattern.				____ I can identify properties of communicative and associative and use them to compute with whole numbers.		____ I can solve algebraic expressions.	___ I can simplify expressions by adding like terms.	___ I can use division to simplify algebraic expressions.
						____ I can apply the correct order of operation to simplify and solve algebraic expressions.	___ I can translate verbal phrases into algebraic expressions.	___ I can solve linear equations using addition and subtraction.
							___ I can translate verbal sentences into algebraic equations.	___ I can solve linear equations using multiplication and division.
							___ I can model real-life situations with algebraic equations.	___ I can use 2 or more transformations to solve an equation.

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							___ I can solve simple inequalities.	___ I can collect variables on one side of an equation.
							___ I can simplify expressions by adding like terms.	___ I can find an exact and approximate solutions of equations that contain decimals.
							___ I can simplify expressions involving subtraction.	___ I can solve a formula for one of its variables.
							___ I can use properties of inequality to solve equations involving integers.	___ I can rewrite an equation in function form.
							___ I can use 2 operations to solve a 2-step equation.	___ I can find the intercepts of the graph of a linear equation.
							___ I can use more than 2 operations to solve an equation.	___ I can identify when a relation is a function.
							___ I can solve equations with variables on both sides.	___ I can solve a linear equation graphically.
							___ can find solutions of a linear equation with 2 variables.	___ I can graph and interpret equations in slope-intercept form.
							___ I can find and tell intercepts of a line.	___ I can graph a linear equation in slope-intercept form.
							___ I can find the slope of a line.	___ I can use intercepts to make a quick graph of a linear equation.
							___ I can find the slope and y-intercept of a line from an equation.	___ I can find the slope of a line using two of its points.
							___ I can check whether the ordered pair is a solution to the equation.	___ I can interpret slope as a rate of change in real-life situation.

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							___ I can find the distance between 2 points.	___ I can write linear equation that represent direct variation.
							___ I can find the midpoint of a line.	___ I can use a ratio to write an equation for direct variation.
							___ I can recognize graphs of horizontal and vertical lines.	___ I can use the slope-intercept form to write an eqaution of a line.
							___ I can use intercepts to draw quick graphs.	___ I can model real-life situations with a linear function.
								___ I can use slope and any point on a line to write an equation of a line.
								___ I can use a linear model to make predictions.
								___ I can write an equation of a line given two points on the line.
								___ I can use a linear equation to model a real-life situation.
								___ I can find a linear equation that approximates a set of data points.
								___ I can determine whether there is a positive or negative correlation or no correlation in a set of data.
								___ I can use point-slope form to write an equation of a line.
								___ I can use point-slope form to model a real-life situation.
								___ I can write a linear equation in standard form.

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								___ I can use standard form of an equation to model real-life situations.
								___ I can determine if a linear model is appropriate.
								___ I can use a linear model to make predictions.
								___ I can graph linear inequalities in one variable.
								___ I can solve one-step linear inequalities.
								___ I can solve multi-step linear equalities.
								___ I can use linear inequalities to model and solve real-life problems.
								___ I can write, solve, and graph compound inequalities.
								___ I can model a real-life situation with a compound inequality.
								___ I can solve absolute-value equations.
								___ I can solve absolute-value inequalities.
								___ I can graph a linear inequality in two variables.

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								___ I can model a real-life situation using a linear inequality in two variables.
								___ I can solve a system of linear equations by graphing.
								___ I can use linear substitution to solve a system of linear equations.
								___ I can use linear combinations to solve a system of linear equations.
								___ I can choose the best method to solve a system of linear equations.
								___ I can use a system to model real-life problems.
								___ I can identify linear systems as having one solution, no solution, or infinitely many solutions.
								___ I can solve a system of linear inequalities by graphing.
								___ I can use a system of linear inequalities to model a real-life situation.
								___ I can use properties of exponents to multiply exponential expressions.
								___ I can evaluate powers that have zero and negative exponents.
								___ I can graph exponential functions.

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								___ I can use the division properties of exponents to evaluate powers and simplify expressions.
								___ I can use division property of exponents to find the probability.
								___ I can use scientific notation to represent numbers.
								___ I can use scientific notation to describe real-life situations.
								___ I can write and use models for exponential growth.
								___ I can graph models for exponential growth.
								___ I can write and use models for exponential decay.
								___ I can graph models for exponential decay.
								___ I can solve equations containing square roots.
								___ I can simplify radicals.
								___ I can find the Axis of Symmetry.
								___ I can graph quadratic equations.
								___ I can solve quadratic equations using the quadratic formula.
								___ I can find discriminate to find number of possible solution.

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								___ I can graph quadratic inequalities.
								___ I can compare linear, exponential and quadratic graphs.
								___ I can add and subtract polynomials.
								___ I can use polynomials to solve real-life problems.
								___ I can multiply 2 polynomials.
								___ I can use polynomials to solve real-life problems.
								___ I can use special product patterns for the product of a sum and a difference, and for the square of a binomial.
								___ I can solve a polynomial equation in factored form.
								___ I can relate factors and x-intercepts.
								___ I can factor a quadratic expression in standard form.
								___ I can solve quadratic equations by factoring.
								___ I can factor a quadratic expression in standard form.
								___ I can solve quadratic equations by factoring.
								___ I can use special product patterns to factor quadratic polynomials.
								___ I can solve quadratic equations by factoring.
								___ I can use the distributive property to factor a polynomial.

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								___ I can solve quadratic equations by factoring.
								___ I can solve proportions.
								___ I can use proportions to solve real-life problems.
								___ I can use equations to solve percent problems.
								___ I can use percents in real-life problems.
								___ I can use direct and inverse variations.
								___ I can use direct and inverse variations to model real-life situations.
								___ I can simplify a rational expression.
								___ I can use rational expressions to find geometric probability.
								___ I can multiply and divide rational expressions.
								___ I can use rational expressions as real-life models.
								___ I can add and subtract rational expressions that have like denominators.
								___ I can add and subtract rational expressions that have unlike denominators.
								___ I can divide a polynomial by a monomial or by a binomial factor.
								___ I can use polynomial long division.
								___ I can solve rational equations.

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								___ I can graph rational functions.
								___ I can evaluate and graph a function involving square roots.
								___ I can add, subtract, multiply and divide radical expressions.
								___ I can solve a radical equation.
								___ I can solve a quadratic equation by completing the square.
								___ I can choose a method for solving a quadratic equation.
								___ I can use the Pythagorean Theorem and its converse.
								___ I can use the Pythagorean Theorem and its converse in real-life problems.
								___ I can find the distance between 2 points in a coordinate plane.
								___ I can find the midpoint of 2 points in a coordinate plane.
								___ I can use sine, cosine, and tangent of an angle.
								___ I can use ergonomic ratios in real-life situations.
								___ I can use logical reasoning and proof to prove a statement Is true.
								___ I can prove that a statement is false.