

Power Standard Checklist

Name of Student _____ Subject: Math Grade Level: 2

Power Standard	Strategies	Performance	Work in Progress/ Completion (X)
1.0 Number Sense- relationship between numbers, quantities, and place value in whole numbers up to 1,000.			
1.1-1.3 Count, read, write, order, compare, and use expanded form.			
2.0 Estimate, calculate and solve 2 and 3 digit numbers.			
2.1-2.2 Recognize inverse relationship between addition and subtraction and finding the sum or difference of 2 whole numbers up to 3 digits.			
3.0 Number Sense-Model and solve simple multiplication and division problems.			
3.1-3.3 Using addition, arrays, counting by multiples, subtraction, equal sharing, forming equal groups with remainders to do division, knowing mult. Tables of 2s, 5s, 10s.			
4.0 Number Sense-Fractions and decimals may refer to part of a set and parts of a whole.			
4.1-4.3 Recognize, name compare fractions $\frac{1}{12}$ to $\frac{1}{2}$, of a whole and parts of a group, all fractions parts is equal to whole and 1.			
5.0 Number Sense- Model and solve problems by representing, adding and subtracting amounts of money.			

5.1-5.2 Solve problems using combinations of coins and bills, know and use decimals, and dollars and cent symbols.			
6.0 Number Sense- Estimation strategies using the ones, tens, hundreds, and thousand places.			
6.1 Estimate when reasonable in measurements.			
1.0 Algebra and Functions- Model, represent, interpret adding and subtraction problems.			
1.1-1.3 by using data, commutative and associative rules, relate problem situations to number sentences, and solve addition and subtraction problems using simple charts, picture graphs, and number sent.			
1.0 Measurement and Geometry-Id. a unit of measure, repeating that unit and comparing it to the one being measured.			
1.1-1.5 Use different units to measure same object and predict size, measure length to nearest in/cm, tell time to the nearest quarter hour and know relationships, and duration of intervals of time in hours.			
2.0 Id and describe common figures I a plane and of common objects in space.			
2.1-2.2 Describe and classify plane and solid geometric shapes-faces, edges and vertices, and put shapes together to form other shapes.			
1.0 Statistics, Data Analysis,			

Probability-Collect numerical data and record, organize and display, and interpret the data on bar graphs and other reps.			
1.1-1.4 Record numerical data, rep. same data set in more than one way, identify range and mode, ask and answer simple questions about data.			

Power Standard Checklist

Name of Student _____ Subject: Math Grade Level: K

Power Standard	Strategies	Performance	Work in Progress/ Completion (X)
1.0 Number Sense- Understand the relat. between numbers and quantities.			
1.1-1.3 Compare two or more sets of objects, count, recognize, represent, name and order objects, and know that larger numbers describe sets with more objects than smaller.			
2.0-2.1 Number Sense- Understand and describe simple addition and subtraction using concrete objects.			
3.0-3.1 Number Sense- Use estimation strategies with numbers in the ones and tens places, and recognize reas. Estimates.			
1.0-1.1 Algebra and Functions-Students sort and classify objects by attribute and id. objects that don't belong to a group.			
1.0-1.4 Measurement and Geometry- Understand concept of time and units, compare objects with length, weight, and capacity, name the days of the week, and id. the time of everyday events.			
2.0-2.2 Measurement and Geometry- Id. common objects and describe geometric features-circle, square rectangle, cube, sphere, cone, position, shape, size, roundness,			

number of corners.			
1.0-1.2 Statistics, Data Analysis, and Probability- Collect info. about objects and events' record results, id., describe, and extend simple patterns-shapes, sizes or colors.			
1.0-1.2 Mathematical Reasoning- how to set up a problem- approach, materials, tools, and strategies to model problems.			
2.0-2.2 Mathematical Reasoning- Solve problems reasonably, justify, explain using objects or pictorials, make precise calc. and check.			

Power Standard Checklist

Name of Student _____ Subject: Math Grade Level: 1st

Power Standard	Strategies	Performance	Work in Progress/ Completion (X)
1.0-1.2 Number Sense- Understand and use numbers up to 100, count, read, and write, compare and order whole numbers.			
1.3-1.5 Number Sense- Rep. equivalent forms of same number using physical models, diagrams, and number expressions, count and group objects in ones and tens, id. and know value of coins and show different comb. of same values.			
2.0-2.3 Number Sense- know addition and subtraction facts, inverse relat. To solve problems, id. one more than, one less than 10 more than, 10 less than.			
2.4-2.7 Number Sense- Count by 2s, 5s, and 10 to 100, show meaning of addition and subtraction, solve addition and subtraction with one and two digits, and find the sum of three one digits numbers.			
3.0-3.1 Number Sense- Estimation strategies with numbers that use ones, tens, hundreds, and reasonable estimates when comparing numbers.			
1.0-1.3 Algebra and Functions-Write and solve addition and subtraction number sentences, understand +,-,= and create			

problems with addition and subtraction.			
1.0-1.2 Measurement and Geometry-Compare length, weight, and volume of two or more objects, tell time to the nearest half hour and relate time to events.			
2.0-2.4 Id. common geometric figures, classify them by common attributes, and describe their relative position or their location in space.			
1.0-1.2 Statistics, Data Analysis, and Probability- Students organize, represent, and compare data by category on simple graphs and charts.			
2.0-2.1 Stats, Data Anal. and Probability- sort objects, create, and describe patterns by numbers, shapes, sizes, rhythms, or colors.			
1.0-1.2 Mathem. Reasoning- Make decisions about problem solving-approach, materials, strategies, amanip, or sketches.			
2.0-2.2 Math. Reasoning- explain reasoning. Justify proced., make precise calc., and check.			
3.0 Math. Reasoning- note connections between one problem and another.			

Power Standard Checklist

Name of Student _____ Subject: Math Grade Level: 3

Power Standard	Strategies	Performance	Work in Progress/ Completion (X)
1.0-1.5 Number Sense- Place value of whole numbers, count, read, write up to 10,000, compare and order, id. place value, round off numbers to nearest ten, hundred, and thousand, and use expanded notation.			
3.0-3.2- Number Sense-Relat. Betw. Whole numbers, simple fractions and decimals-compare factions, add and subtract fractions.			
3.3 Number Sense0 Solve probs using addition, subtraction, mult, div. of money amounts in decimals and divide money amounts in decimals using whole number multipliers and divisors.			
3.4 Number Sense- Know and understand fractions and decimals are two diff. reps of the same concept.			
2.0,2.1.2.3- Number Sense- Calculate and solve addition, subtraction, mult, and div, sum or difference of two whole numbers between 0 and 10,000, and use inverse relat. of mult. and div. to compute and check.			
2.4-2.5 Number Sense- Solve simple problems with mult. of multi-digit numbers by one digit number and div. with a multi-digit number			

divided by one digit number.			
2.6-2.8 Number Sense- Understand special prop. Of 0 and 1 in mult. And division, determine unit cost, and solve probs that require two or more skills.			
1.0-1.3 Algebra and Function- Select appropriate symbols, ops, and properties to represent, describe, simplify, and solve number relationships- math. expressions, equations, inequalities, and select symbols.			
1.4-1.5 Alg. And Function- express simple unit conversions in symbolic form, and recognize and use commutative and associative properties.			
2.0-2.2 Alg. and Functions- solve simple problems with functional relat. between two quant., and extend and recog. linear pattern by rules.			
1.0-1.1 Measurement and Geometry- Choose and use units and measurement tools to quantify the properties of objects; estimate and measure length, liquid volume, and weight/ mass.			
1.2 Meas. and Geom. – estimate or det. the area and volume by covering with squares or by counting the number of cubes that fill.			
1.3 Meas. and Geom.- Find the perimeter of a polygon with integer sides.			
1.4 Meas. and Geom.Simple unit conversions with meas.- cm and m, hours and min.			

2.0-2.1 Meas. and Geom- Describe and compare plane and solid geom. figures, show relat. and solve probs, id. , describe and classify polygons.			
2.2-2.3 Meas. and Geom.- Id. attributes of triangles and quadrilaterals.			
2.4 Meas. and Geom.- Id right angles in geom.. figures or objects and det. greater than or less than a rt. angle.			
2.5 Meas. and Geom.- Id., describe and classify common 3D geometric objects.			
2.6 Meas. and Geom.- Id. common solids objects to make a more complex solid object.			
1.0- Statistics, Data Analysis, and Probability (S,DA, and P)- Simple probability experiments by determining the number of possible outcomes and make simple predictions.			
1.1 S,DA, and P- Id. common events-certain, likely, unlikely, or improbable.			
1.2 S, DA, and P- Record the possible outcomes for a simple event and keep track an event repeated.			
1.3 S, DA, and P-Summarize and display results of probability using a bar graph or line plot.			

Power Standard Checklist

Name of Student _____ Subject: Math Grade Level: 4th

Power Standard	Strategies	Performance	Work in Progress/ Completion (X)
1.0-1.2 Number Sense- Place value of whole numbers and decimals to two decimal places and how whole numbers and decimals relate to simple fractions; read and write whole numbers in the millions.			
1.3 Number Sense- Round whole numbers through millions to the nearest ten, hundred, thousand, ten thous., and hundred thous.			
1.5 Number Sense- fractions-parts of a whole, set , division of whole numbers by whole numbers, equiv. fractions.			
1.6 Number Sense-tenths and hundredths in decimals and fractions; fraction and decimal equiv. for halves and fourths.			
1.7 Number Sense- fraction: drawing parts of a figure; rep. by drawing, and relate fraction to a simple decimal on number line.			
1.8 NS- Negative numbers on a number line, in counting, in temperature, in owing.			
1.9 NS- Id. on number line position of positive fractions, positive mixed numbers, and positive decimals to two decimal places.			
2.0 Number Sense- Addition and subtraction of simple decimals.			

2.1 NS Estimate and compute sum or difference of whole numbers and positive decimals to two places.			
2.2 NS Round two place decimals to one decimal or the nearest whole number and reasonableness.			
3.0 Number Sense- Solve addition, subtraction, multiplication, and division problems of whole numbers.			
3.1 NS- Use algorithms for addition and subtraction of multi-digit numbers.			
3.2 NS- Use algorithms to multiply and a multi-digit number by a two-digit number and divide a multi-digit by a one digit.			
3.3 NS- Solve multipl. Problems of multi-digit by two-digit.			
3.4 NS-Solve div. problems of multi-digit numbers by one digit.			
4.0-4.1 Number Sense- Factor small whole numbers, many whole numbers break down differently.			
4.2 NS-Numbers such as 2,3,5, 7, 11 do not have any factors except 1 and themselves-prime numbers.			
1.0 Algebra and Functions- Variables, math. symbols, and properties to write and simplify expressions and sentences.			
1.1 NS Letters, boxes or other symbols to stand for a number in simple expressions or equations.			
1.2-1.3 A and F- Math. Expressions using			

parentheses and which operation to perform first with expressions with more than two terms and operations.			
1.4 A and F- Use and interpret formulas to answer questions ($A=lw$)			
1.5 A and F- Equation is a way to determine a second number when a first number is given.			
2.0-2.2 Algebra and Functions-Know how to manipulate equations; equals added or multiplied to equals are equals.			
1.0 Measurement and Geom.- perimeter and are of rectangles and squares.			
1.1 M and G- using square units to measure area of a rect.			
1.2-1.3 M and G- Rect. with the same area can have different per; rect. With same perimeter can have different areas.			
1.4 M and G-Formulas to solve per. and area of rect. and squares and more complex figures by dividing figures into basic shapes.			
2.0-2.3 Meas. and Geom.- use 2D coordinate grids to represents points and graph lines and simple figures., connect using a straight line, x-coordinates, y-coordinates.			
3.0-3.4 Meas. and Geom-Plane and solid geometric objects, show relationships, solve problems: parallel, perpendicular, radius and diameter of circle, congruent figures, and figures with			

bilateral and rotational symmetry.			
3.5 M and G- Definitions of right angle, acute angle, obtuse angle, 90, 180, 279, and 360, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and full turns.			
3.6 M and G- Models of geom. solids, number and shape of faces, edges, vertices; interpret 2D and 3D objects; draw patterns of faces when cut and folded will make a solid model.			
3.7 M and G- Definitions of triangles- equilateral, isosceles, and scalene and attributes.			
3.8 M and G- Definition of quadrilaterals-rhombus, square, rectangle, parallelogram, trapezoid.			
1.0 Statistics, Data Analysis, and Probability (S, DA, P)- Organize, represent, and interpret numerical and categorical data and communicate.			
1.1 S, DA, P- Survey questions, collect and represent data on a number line, coordinate graphs, tables, and charts.			
1.2 S, DA, P- Id. mode(s), median, and any outliers for numerical data sets.			
1.3 S, DA, and P- One and two variable data graphs to answer questions.			
2.0 S, DA, and P-Make predictions for simple probability situations.			
2.1-2.2 S, Da and P- All possible outcomes for probability in tables, grids, tree diagrams.			

2.2 S, DA, and P- Express outcomes of experimental probability verbally and numerically.			
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Power Standard Checklist

Name of Student _____ Subject: Math Grade Level: 5th

Power Standard	Strategies	Performance	Work in Progress/ Completion (X)
1.0 Number Sense			
1.1 Estimate, round, and manipulate large and small numbers, e.g. millions, thousandths.			
1.2 Percents as part of 100; decimals and percents for common fractions, why same value, and percent of a whole number.			
1.3 Positive integer powers of nonnegative integers; ex. as repeated multiplication.			
1.4 Prime factors of all number through 50 and write numbers as the product of prime factors by using exponents to show multiples of a factor.			
1.5 Id. and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers.			
2.0 Number Sense- Addition, subtraction, and multiplication and division of fractions and decimals/			
2.1 Add, subtract, multiply, and divide with decimals; add with integers; subtract positive integers from negative integers; reasonableness.			
2.2 Division with positive decimals and long division with multi-digit divisors.			
2.3 Simple problems, addition and subtraction of fractions and mixed numbers, answers in simplest form.			
2.4 Multiplication and division of fractions.			
2.5 Multiplication and division of			

fractions and apply to solve problems.			
1.0 Algebra and Functions- Variables in simple expression for specific values, and plot and interpret results.			
1.1 Answer problems using info. From a graph or equation.			
1.2 Letter to represent a number; write and evaluate simple algebraic expressions in one variable by substitution.			
1.3 Know and use the distributive property in equations and expressions with variables.			
1.4 Id. and graph ordered pairs in four quadrants of the coordinate plane.			
1.5 Solve problems with linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid.			
1.0 Measurement and Geometry- volumes and areas of simple objects.			
1.1 Formula for area of triangle and parallelogram by comparing to formula for area of rectangle (e.g. two of the same triangles make a parallelogram with twice the area; a parallelogram is compared to a rectangle of the same area by cutting and pasting right triangle on parallelogram.			
1.2 Make a cube and rectangular box from 2D patterns and use these patterns for surface area.			
1.3 Volume of rectangular solids and units cubed.			
1.4 Differentiate between and use units of measure for 2D and 3D objects-perimeter, area, and volume.			
2.0 Measurement and Geometry- Plane and solid geometric figures.			

2.1 Measure, id, and draw angles, perpendicular and parallel line, rectangles and triangles by using tools.			
2.2 Sum of triangles of any triangle is 180; angles of quadrilateral 360; solve problems.			
2.3 Draw 2D views of 3D objects from rectangular solids.			
1.0 Statistics, Data Analysis, and Probability-Display, analyze, compare different data sets.			
1.1 Mean, median, and mode, compute and compare simple examples to show that they may differ.			
1.2 Single-variable data in graphs- (e.g. bar graphs, circle graphs, histograms) and explain why each is appropriate.			
1.3 Factions and percentages to compare data sets of different sizes.			
1.4 Id. ordered pairs of data from a graph and interpret the meaning of data depicted by graph.			
1.5 Ordered pairs (x,y)			

Power Standard Checklist

Name of Student _____ Subject: Math Grade Level: 6th

Power Standard	Strategies	Performance	Work in Progress/ Completion (X)
1.0 Number Sense- Compare and order positive and negative fractions, decimals, and mixed numbers. Solve problems with fractions, ratios, proportions, and percentages.			
1.1 Compare and order positive and negative fractions, decimals, and place them on a number line.			
1.2 Ratios in different contexts to show sizes of two quantities, using notations (a/b, a to b, a:b)			
1.3 Solve problems with proportions, cross multiplication, understanding it as the multiplication of both sides of an equation by a multiplicative inverse.			
1.4 Percentages and solve problems with discount at sales, interest earned, and tips.			
2.0 Number Sense- Calculate and solve problems involving addition, subtraction, multiplication, and division.			
2.1 Addition, subtraction, multiplication, and division of fractions and explain.			
2.2 Explain multiplication and division of positive fractions and calculate.			
2.3 Solve addition, subtraction, multiplication, and division problems-			

positive and negative integers and combinations of operations.			
2.4 LCM and GCF of whole numbers and solve problems.			
1.0 Algebra and Functions- Write and evaluate algebraic expressions, solve linear equations, and graph and interpret results.			
1.1 Write and solve one-step linear equations in one variable.			
1.2 Write and evaluate an algebraic expression for a given situation-up to 3 variables.			
1.3 Order of operations, commutative, associative, and distributive properties to evaluate expressions.			
1.4 Solve problems using order of operations or scientific calculator.			
2.0 Algebra and Functions- Tables, graphs, and rules to solve problems with rates and proportions.			
2.1 Convert one unit of measurement to another.			
2.2 Rate is a measure of one quantity per unit value of another quantity.			
2.3 Solve problems involving rates, average speed, distance, and time.			
3.0 Investigate geometric patterns and describe algebraically.			
3.1 Use variables in expressions describing geometric quantities, e.g. $P=2w+2l$, $A=1/2 bh$			
3.2 Express in symbolic from simple relationships from geometry.			

1.0-1.1 Measurement and Geometry- pi, circumference and area of a circle.			
1.2 $\pi=3.14$ or $\frac{22}{7}$, estimate and calculate C and A of circles.			
1.3 Volume of triangular prisms and cylinders; compare and explain similarity with volume of rectangular solid.			
2.0 Id. and describe properties of 2D figures.			
2.1 Vertical, adjacent, complementary, and supplementary angles.			
2.2 Solve problems with an unknown angle using complementary, supp., and sum of angles.			
2.3 Draw quadrilaterals and triangles from given info.			
1.0-1.1 Statistics, Data Analysis, and Probability- Range, mean, median, and mode.			
1.2 Additional data added may affect measures of central tendency.			
1.3 Inclusion or exclusion of outliers affects measures of central tendency.			
2.0 Data samples of population and describe characteristics and limitations.			
2.2 Different ways of selecting a sample- e.g. convenience, survey, random sample, and which sample more representative.			
2.5 Id. claims based on statistical data and evaluate.			
3.0 Theoretical and experimental probability and make predictions.			

<p>3.1 Possible outcomes for compound events-e.g. tables, grids, tree diagrams, and express theoretical probability.</p>			
<p>3.3 Represent probabilities as ratios, proportions, decimals between 0 and 1, and percentages between 0 and 100 and reasonableness (1-P is prob. of event not occurring)</p>			
<p>3.4 P of either of two disjoint events is the sum of the two individual probabilities; P of one event following another, in independent trials is the product of two probabilities.</p>			
<p>3.5 Understand difference between independent and dependent events.</p>			