

North Palos School District 117

FIFTH GRADE

September State Goals For Math

6.5.01, 6.5.05, 6.5.07, 6.5.08	Place values on a vertical/horizontal number line for whole numbers & decimals (hundred millions to thousandths)
6.5.02	Problem solving with whole numbers & decimals using 4 basic operations
6.5.11	Determine & recognize prime & composite numbers
6.5.12	Use divisibility rules to solve problems.
6.5.12, 6.5.13, 6.5.16	Compute with whole numbers & decimals using 4 basic operations.
6.5.05, 6.5.11	Properties of numbers (factor trees, odd/even, multiples/factors, < & >, square #)
	Review of September skills.

FIFTH GRADE

October State Goals For Math

6.5.04	Use manipulative & drawings to model percent.
6.5.04, 6.5.19	Convert & compare decimals to percents/percents to decimals (0%, 25%, 50%, 75%, & 100%)
6.5.10	Compare decimals with fractions & percents on a number line.
6.5.09	Identify fraction size & order.
6.5.03, 6.5.09	Reduce fractions to lowest terms (including improper fractions to mixed numbers & mixed numbers to improper fractions.)
6.5.04	Compare & convert decimals to fractions/fractions to decimals (halves, quarters, fifths, & tenths)
6.5.14, 6.5.16	Convert & calculate fractions with unlike denominators. (addition & subtraction)
	Review of October skills

FIFTH GRADE

November State Goals For Math

10.5.03, 10.5.04, 10.5.05	List all possible outcomes of compound & independent events (ex: coin toss, spin a spinner)
10.5.04	Assign a value of zero to impossible probabilities.
10.5.04	Express simple probabilities as a fraction between 0 and 1.
10.5.04	Predict the probability of outcomes of simple experiments & test predictions.
6.5.17, 6.5.18	Recognize/express probability as ratio (ex: A/B, A:B)
	Review of November skills

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December State Goals For Math

9.5.01, 9.5.02, 9.5.10, 9.5.11	Identify & classify 2 & 3 dimensional objects.
9.5.01, 9.5.13	Determine congruency & symmetry of polygons. (identify congruent & similar figures by visual inspection)
9.5.14	Determine if figures are similar, & identify relationships between corresponding parts of similar figures.
9.5.01, 9.5.03	Identify triangles & calculate degree of missing angles.
9.5.01, 9.5.09, 7.5.02	Identify & draw angles using a protractor. (acute, right, & obtuse)
7.5.02, 9.5.08	Identify & draw perpendicular, parallel, & intersecting line segments.
	Review of December skills

FIFTH GRADE

January State Goals For Math

7.5.03, 7.5.04, 7.5.05	Calculate perimeter, area, & volume of simple & complex polygons, and regular & irregular shapes
9.5.04	Reinforce circle labels & construction.
9.5.05	Graph, locate, identify points, & describe paths using ordered pairs (first quadrant)
9.5.15	Determine the distance between 2 points on a horizontal or vertical number line (whole numbers)
10.5.03	Calculate mean, median, mode, & range
	Review of January skills

FIFTH GRADE

February State Goals For Math

6.5.15	Solve problems using the commutative, distributive, & identity property of whole numbers (e.g., $37 \times 46 = 46 \times 37$, $270 \times 5 = (200 \times 5) + (70 \times 5)$)
8.5.01	Determine a missing term in a sequence, extend a sequence & identify errors in a sequence.
8.5.03	Write an expression using variables to represent unknown quantities.
8.5.02, 8.5.05	Demonstrate how a change in 1 quantity results in a change in another quantity (e.g., input-output tables)
8.5.04, 8.5.07, 8.5.08, 8.5.09	Create & solve linear equations involving numbers using a variety of methods (ex: Guess & Check, picture drawing, etc.)
	Review of February skills.

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March State Goals For Math

ISAT PREP	REVIEW OF ALL SKILLS TAUGHT
10.5.01	Read, interpret, & make predictions from various graphs (double bar, line plot, Venn Diagram, chart/table, line graph, pictograph, or circle graph)
10.5.02	Create a pictograph, bar graph, or line graph for a given set of data with & w/o technology.

FIFTH GRADE

April State Goals For Math

7.5.02	Select & use appropriate standard units & tools to measure length (to the nearest 1/4 inch or mm), mass/weight, capacity, angles.
7.5.01	Solve problems involving elapsed time in compound units. (hours & minutes)
7.5.06	Solve problems involving unit conversions within the same measurement system for time, length, & weight/mass, including compound units (e.g., 5 ft. 5 in., 2 lbs. 2 oz.)
7.5.07	Solve problems involving maps interpretation (e.g., 1 in. represents 5 mi. so 2 in. represents 10 mi.)
7.5.02, 7.5.06	Explain that all measurements are approximations.
7.5.02, 7.5.06, 7.5.07	Describe how precision is affected by choice of units.
9.5.12, 7.5.06, 7.5.07	Use skills to make a scale drawing using geometry, measurement, scale, & explain process.
	Review of April skills

FIFTH GRADE

May State Goals For Math

9.5.07	Identify, describe, & predict results of reflections, translations, & rotation in 2 dimensional shapes.
9.6.06	Identify whether or not a figure has 1 or more lines of symmetry & identify & sketch all lines of symmetry.
9.5.10	Identify the 2-dimensional components of a 3-dimensional object.
9.5.12	Identify a 3-dimensional object from its net.
	Prep for next grade/review of cum skills