

North Palos School District 117

**FIFTH GRADE
MATH CURRICULUM MAPs**

| Month | Content | Skills | State Standards |
|------------------|----------------|--|--|
| September | Number Sense | Identify numbers and place values on a vertical/horizontal number line for whole numbers (hundred millions to thousandths) | 6.5.01, 6.5.05, 6.5.06, 6.5.07, 6.5.08 |
| | | Compute whole #'s w/decimals (addition & subtraction) | 6.5.12, 6.5.13, 6.5.16 |
| | | Divisibility rules | 6.5.12 |
| | | Determine & identify prime and composite numbers | 6.5.11 |
| | | Identify properties of numbers through factor trees, odd/even, factors/multiples, < & >, & square numbers. | 6.5.11 |
| | | Read, write, identify, model & interpret numerical expressions from a description or expressions from a given description or situation | 6.5.02, 6.5.16 |
| | | | |

| Month | Content | Skills | State Standards |
|----------------|----------------|---|------------------------|
| October | Number Sense | Use manipulatives or drawings, model the concept | 6.5.04 |
| | | Compare decimals with fractions & percents on a number line | 6.5.10 |
| | | Convert & compare decimals to percents & percents to decimals (0%, 25%, 50%, 75%, & 100%) | 6.5.04, 6.5.19 |
| | | Convert & compare decimals & fractions/fractions to decimals (halves, quarters, fifths, & tenths) | 6.5.04 |
| | | Reduce fractions to lowest terms | 6.5.03, 6.5.09 |
| | | Convert improper fractions to mixed numbers/mixed numbers to improper fractions | 6.5.03 |
| | | identify, order, convert & calculate fractions with unlike denominators | 6.5.09, 6.5.14, 6.5.16 |

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| Month | | | |
|-----------------|--|--|------------------------|
| November | Content | Skills | State Standards |
| | Number Sense | List all possible outcomes of compound & independent events (ex: toss of a coin, spin a spinner) | 10.5.04, 10.5.05 |
| | Data Analysis, Statistics, & Probability | 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 the predictions | 10.5.04 |
| | | identify/express probability as ratio (ex: A/B, A:B) | 6.5.17, 6.5.18, |

| Month | | | |
|-----------------|----------------|---|--------------------------------|
| December | Content | Skills | State Standards |
| | Geometry | Identify & classify 2 & 3 dimensional objects (e.g., triangles, quadrilaterals, pentagons, hexagons, octagons, cubes, spheres, cones, cylinders, prisms, & pyramids) according to their characteristics (# of sides, # of vertices, & interior angles, faces, edges & vertices) | 9.5.01, 9.5.02, 9.5.10, 9.5.11 |
| | Measurement | Determine congruency & symmetry of polygons (identify whether or not a figure has 1 line of symmetry & sketch all lines of symmetry) | 9.5.01, 9.5.06, 9.5.13 |
| | | Determine if figures are similar, & identify relationships between corresponding parts of similar figures. | 9.5.14 |
| | | Identify triangles & calculate degree of missing angles | 9.5.01, 9.5.03 |
| | | Identify & draw angles using a protractor. (acute, right, & obtuse) | 9.5.01, 9.5.09, 7.5.02 |
| | | Identify & draw perpendicular, parallel, & intersecting line segments. | 7.5.02, 9.5.08 |

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|----------------|----------------|---|------------------------|
| January | Content | Skills | State Standards |
| | Measurement | Calculate perimeter, area, & volume of simple & complex polygons & regular & irregular shapes | 7.5.03, 7.5.04, 7.5.05 |
| | Geometry | Reinforce circle labels & construction (e.g., radius & diameter) | 9.5.04 |
| | Data Analysis | Calculate mean, median, mode, & range | 10.5.03 |
| | | Graph, locate, identify points, & describe paths using ordered pairs (first quadrant) | 9.5.05 |
| | | Determine the distance between 2 points on a horizontal or vertical number line (whole numbers) | 9.5.05, 9.5.15 |

| Month | | | |
|-----------------|----------------|--|--------------------------------|
| February | Content | Skills | State Standards |
| | Algebra | Solve algebraic expressions using different properties of operations (commutative, distributive, & identity properties of whole numbers. | 6.5.15, 8.5.01, 8.5.02, 8.5.03 |
| | Number Sense | Demonstrate, in simple situations, how a change in 1 quantity results in a change in an other quantity (e.g., input-output tables) | 8.5.02, 8.5.03, 8.5.05 |
| | | Demonstrate how the change in one quantity effects the value of the other quantities in a numerical relationship | 8.5.02, 8.5.06 |
| | | Create & solve linear equations involving whole numbers using a variety of methods (ex: Guess & Check, picture drawing, etc.) | 8.5.04, 8.5.07, 8.5.08, 8.5.09 |

| Month | | | |
|--------------|--|---|------------------------|
| March | Content | Skills | State Standards |
| | ISAT Preparation | Review | |
| | Data Analysis, Statistics, & Probability | Read, interpret, & make predictions from various graphs (double bar, line plot, Venn Diagram, chart/table, line graph, pictograph, or circle graph) | 10.5.01 |
| | | Create a pictograph, bar graph, or line graph for a given set of data with & w/o technology. | 10.5.02 |

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

| Month | | | |
|--------------|----------------|---|------------------------|
| May | Content | Skills | State Standards |
| | Geometry | Identify, describe, & predict results of reflections, translations, & rotation in 2 dimensional shapes. | 9.5.07 |
| | | Identify whether or not a figure has 1 or more lines of symmetry & identify & sketch all lines of symmetry. | 9.5.06 |
| | | | |
| | | Prep for next grade/review of cum skills | |

***NOTE: Problem Solving, estimation, & vocabulary are on-going throughout the year**