

North Palos School District 117

FOURTH GRADE
MATH CURRICULUM MAPS

Month	Content	Skills	Standards
September	Number Sense Place Value	*Standard, expanded & word form to million	6.4.02
		*Compare & order to one hundred thousand	6.4.05
	Whole Numbers	*Compare, order, add, subtract whole numbers w/ regrouping including fact families.	6.4.10, 6.4.14, 6.4.15
		*Read, write, recognize, and model whole numbers up to one million.	6.4.01
		*Solve problems involving descriptions of numbers including characteristics and relationships. (odd/even),(greater/less than	6.4.09
	Probability	*Classify events as certain, likely, equally likely, possible, or impossible	10.4.04
		Describe chances (3/4 or 3 out of 4)	10.4.05
	Measurement	*Compare volume, weight/mass using referents.	7.4.04
	Geometry	*Determine distance between two points on a number line using whole numbers	9.4.13
	Problem Solving	*Related to September skills	
		Specific Problem Solving Strategy: Draw a Picture	
		Extended Response and Short Response	
	Estimation	*Related to September skills	6.4.16

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Month	Content	Skills	Standards
October	Algebra/ Number Sense	*Represent multiplication as repeated addition	6.4.04
		*Interpret and solve math expressions with & without parenthesis using addition and subtraction.	6.4.14
		*Use inverse relationship between multiplication and division to complete basic fact sentences.	6.4.15
		*Commutative and distributive property. $(7 \times 8 = 8 \times 7)$, $(27 \times 5) = (20 \times 5) + (7 \times 5)$	6.4.14
		*Basic multiplication and division facts and apply to mult.of 10 ex. $(3 \times 9 = 27, 30 \times 9 = 270)$ (up to 12)	6.4.12
		*Construct and solve simple number sentences using a symbol for a variable. $3 + n = 10$ (word problems)	8.4.02
		*Describe patterns using input/ output tables	8.4.03
		*Solve one step linear equations with one missing value using addition and subtraction	8.4.07
		*Identify a number pattern, both increasing and decreasing and extend the number sequence	8.4.01
		*Determine the missing numbers in a complex repeating pattern.	8.4.01
		*Make generalizations given a specific pattern	8.4.01
		*Create, describe and extend patterns	8.4.01
		*Describe a pattern with one operation, verbally and symbolically given a table of input/output numbers	8.4.01
		*Equalities and inequalities of number sentences. $(3 \times 4 = 2 \times 6)$	8.4.06
	Problem Solving	*Relate to October skills	8.4.08
		Specific Problem Solving Strategy: Look for a Pattern	
		Practice Extended Response and Short Response	
	Estimation	*Relate to October skills	6.4.16
		Review September skills	

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Month	Content	Skills	Standards
November	Number Sense Multiplication	*Apply basic multiplication and division facts and relate them to multiples of ten. ($3 \times 9 = 27$, $30 \times 9 = 270$)	6.4.12
		*Fact Families: Mult. And Div. Are inverse operations.	6.4.15
		*Solve 1, 2, and 3 digit number problems by one digit using appropriate multiplication properties	6.4.10
	Measurement/ Time	*Reinforce a.m. and p.m. on an analog clock	7.4.02
		*Introduce elapsed time in hour and min. that occur in the same half day (a.m. only or p.m. only)	7.4.01
	Problem Solving	Relate to November skills	
		Specific Problem Solving Strategy: Make it Simpler/Make a List	
		Practice Extended and Short Responses	
	Estimation	Relate to November skills	6.4.16
		Review September and October skills	

Month	Content	Skills	Standards
December	Number Sense	*Interpret data on graphs (bar, line, circle, tally, line plot) Venn Diagram	10.4.01
		*Create bar graphs, tally charts, and pictographs	10.4.02
		*Determine mode and range, given a graph and data	10.4.03
		*Identify or represent situations using words, tables, and graphs.(ex. Time and temp. on a line graph)	8.4.04
		*Translate between different representations (table, written pictures of whole number relationships)	8.4.05
	Measurement	*Measure length, (to nearest $\frac{1}{2}$ in or $\frac{1}{2}$ cm) and temp	7.4.02
		*Solve conversion problems within the same measurement system.	7.4.06
	Temperature	*Introduce Celsius and Fahrenheit units of measurement	7.4.02
	Problem Solving	Relate to December skills	
		Specific Problem Solving Strategy: Making a Table	
		Practice Extended and Short Response	
	Estimation	Relate to December skills	6.4.16
		Review September - November Skills	

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Month	Content	Skills	Standards
January	Multiples	*Review factors and multiples	6.4.09
	Number Sense and Fractions	*Represent, order, label, and compare familiar fractions	6.4.03, 6.4.07
		*Model and solve addition and subtraction problems using fraction with like denominators.	6.4.13
		*Show equivalent representations of fractions	6.4.03
		*Understand decimals	6.4.06
		*Represent, order and compare decimals (through hundredths) to demonstrate understanding of the place value structure in the base ten number system.	6.4.06
		*Solve problems involving money and making change, including value of collection of bills and coins	6.4.11
		*Identify and locate whole numbers, halves, and fourths on a number line.	6.4.08
	Problem Solving	Relate to January Skills	
		Specific Problem Solving Strategy: Work Backwards	
		Practice Extended and Short Response	
		Relate to January Skills	
	Estimation	Relate to January Skills	6.4.16
		Review September - December skills	

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Month	Content	Skills	Standards
February	Geometry	* Identify, draw and label lines, rays, line segments, parallel lines, intersecting lines, perpendicular lines, acute angles, obtuse angles, right angles.	9.4.01,9.4.07, 9.4.08
		* Identify acute right and obtuse right, scalene, isosceles, and equilateral triangles.	9.4.01,9.4.07, 9.4.08
		*Identify quadrilaterals, pentagon, hexagon, and octagons	9.4.01,9.4.07, 9.4.08
		*Measure angles using a protractor or angle ruler	9.4.08
		*Read and plot ordered pairs	9.4.04
		*Describe paths and movements using coordinate systems	9.4.04
		*Differentiate between polygons and non-polygons	9.4.03
		*Determine congruence and similarity of given shapes	9.4.12
		*Identify and describe 3 dimensional shapes (cubes, spheres cones, cylinders, prisms, pyramids) according to their characteristics.(faces, edges, vertices)	9.4.02
		*Determine and draw a figure's lines of symmetry.	9.4.05
		*Identify images flips, slides, and turns	9.4.06
		*Identify the 2 dimensional components of a 3 dimensional object. (nets-flattened picture of a shape)	9.4.09, 9.4.10
		*Predict the results of composing or decomposing shapes or figures	9.4.11
		*Solve problems involving perimeter and area. May include sketching a figure.	7.4.03
		*Compare and estimate length, including perimeter and area	7.4.04
	Algebra/Measurement	*Introduce strategies for estimating perimeters and areas of polygons and non-polygons.	10.4.2
		*Determine volume of a solid figure that shows cubic units.	7.4.05, 10.4.03
	Problem Solving	Relate to February skills	
		Specific Problem Solving Strategy: Act it Out or Use Objects	
		Practice Extended and Short Response	
	Estimation	Estimation	6.4.16
		Relate to February skills	
		Review September - January skills	

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Month	Content	Skills	Standards
March	Review and ISAT	*Reinforce solving problems involving a collection of bills	6.4.11
		and coins. Whose value is \$100.00 or less, and make change	
		*Identify prime and composite numbers	6.4
		*Review	all
	Problem Solving	Relate to March Skills	
		Relate to March Skills	
		Specific Problem Solving Strategy: Guess and Check	
		Practice Extended Response and Short Response	
	Estimation	Estimation	6.4.16
		Relate to March Skills	
		Review September - February skills	

Month	Content	Skills	Standards
April	Number Sense	*Solve two and three digit number problems, by two digits	6 & 8
		using appropriate multiplication properties.	
		*Solve multi-step number sentences and word problems, using	6
		whole numbers and the four basic operations.	
		*Change improper fractions to mixed numbers.	6
		*Add and subtract mixed numbers with like denominators.	6
	Problem Solving	Relate to April Skills	
		Specific Problem Solving Strategy: Continue to practice Guess and Check	
		Practice Extended and Short Responses	
	Estimation	Estimation	6.4.16
		Relate to April Skills	
		Review September - March skills	

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Month	Content	Skills	Standards
May	Number Sense	*Divide two and three digit numbers by one digit with and without remainders	6
		*Solve multi-step number sentences and word problems,	6
		using whole numbers and the four basic operations.	
	Problem Solving	Relate to May Skills	
		Review all Problem Solving Strategies	
	Estimation	Estimation	6.4.16
		Relate to May Skills	
		Review monthly skills September - April	