

FOURTH GRADE September State Goals For Math

	Number Sense/Place Value
6.4.02	*Standard, expanded & word form to million
6.4.05	*Compare & order to one hundred thousand
	Whole Numbers
6.4.10, 6.4.14, 6.4.15	*Compare, order, add, subtract whole numbers w/ regrouping including fact families.
6.4.01	*Read, write, recognize, and model whole numbers up to one million.
6.4.09	*Solve problems involving descriptions of numbers including characteristics and relationships. (odd/even),(greater/less than)
	Probability
10.4.04	*Classify events as certain, likely, equally likely, possible, or impossible
10.4.05	Describe chances (3/4 or 3 out of 4)
	Measurement
7.4.04	*Compare volume, weight/mass using referents.
	Geometry
9.4.13	*Determine distance between two points on a number line using whole numbers
	Problem Solving
	*Related to September skills
	Specific Problem Solving Strategy: Draw a Picture
	Extended Response and Short Response
	Estimation
6.4.16	*Related to September skills
	Allow 1-2 days for review

FOURTH GRADE October State Goals For Math

6.4.04	*Represent multiplication as repeated addition
6.4.14	*Interpret and solve math expressions with & without parenthesis using addition and subtraction.
6.4.15	*Use inverse relationship between multiplication and division to complete basic fact sentences.
6.4.14	*Commutative and distributive property. $(7 \times 8 = 8 \times 7)$, $(27 \times 5) = (20 \times 5) + (7 \times 5)$
6.4.12	*Basic multiplication and division facts and apply to mult.of 10 ex. $(3 \times 9 = 27, 30 \times 9 = 270)$ (up to 12)
8.4.02	*Construct and solve simple number sentences using a symbol for a variable. $3 + n = 10$ (word problems)
8.4.03	*Describe patterns using input/ output tables
8.4.07	*Solve one step linear equations with one missing value using addition and subtraction
8.4.01	*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
8.4.06	*Equalities and inequalities of number sentences. $(3 \times 4 = 2 \times 6)$
	Problem Solving
8.4.08	*Relate to October skills
	Specific Problem Solving Strategy: Look for a Pattern
	Practice Extended Response and Short Response
	Estimation
6.4.16	*Relate to October skills
	Review September skills

FOURTH GRADE November State Goals For Math

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

FOURTH GRADE December State Goals For Math

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

FOURTH GRADE January State Goals For Math

6.4.09	*Review factors and multiples
	Number sense and Fractions
6.4.03, 6.4.07	*Represent, order, label, and compare familiar fractions
6.4.13	*Model and solve addition and subtraction problems using fraction with like denominators.
6.4.03	*Show equivalent representations of fractions
6.4.06	*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.
6.4.11	*Solve problems involving money and making change, including value of collection of bills and coins
6.4.08	*Identify and locate whole numbers, halves, and fourths on a number line.
	Problem Solving
	Specific Problem Solving Strategy: Work Backwards
	Practice Extended and Short Response
	Relate to January Skills
	Estimation
	Relate to January Skills
	Review September - December skills

FOURTH GRADE February State Goals For Math

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

FOURTH GRADE

March State Goals For Math

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

FOURTH GRADE

April State Goals For Math

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

FOURTH GRADE

May State Goals For Math

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

North Palos School District 117

	Review monthly skills September - April
--	---