

Teacher Resource Guide

Suggested Use:

Teacher/Curriculum Road Map
 Faculty Meetings
 Departmental Meetings
 Grade-Level Meetings

Key: Shaded/bolded rows – mastery levels expected and assessment required.
 Appropriate vocabulary to be taught within each standard-see attached (insert web address). Refer to grade level One Pager for standard details (insert web address).

Essential Learning Expectations (ELE's/Critical Competencies) should be addressed in contexts that promote problem solving, reasoning, communication, making connections and designing and analyzing representations - Curriculum Focal Points for Prekindergarten through grade 8 Mathematics – NCTM – National Council for Teachers of Mathematics

Content Standard				
State Established Benchmark	Critical Competencies At the end of fourth grade, a proficient student will:	Projected Delivery Window	Need for Resources or Instructional Strategies	Professional Development Needs
STANDARD 1	NUMBERS AND OPERATIONS			
1.1	Understand place value to hundred thousands			
1.2	Develop estimating skills for all operations			
1.3	Apply whole number operations of multiplication and division			
1.3	Add and subtract two whole numbers with regrouping into the one hundred thousands place			
1.3	Multiply three-digits times two-digits			
1.3	Divide hundreds by a one digit divisor			
1.3	Multiply facts fluently to ten			
1.4	Identify fractions (tenths, quarters, halves)			
1.4	Add fractions with common denominators			
1.4	Recognize and compare equivalent representations			
1.4	Identify and model decimals to thousandths place			
STANDARD 2	DATA ANALYSIS, PROBABILITY, AND STATISTICS			
2.1	Interpret, read, and construct graphs and tables			
2.1	Represent and organize data in a stem and leaf plot and line plot			
2.2	Use data to solve problems (i.e., ordering or finding maximum/minimum median)			
2.2	Read and graph ordered pairs			
2.3	Use probability to describe events as likely or unlikely and discuss the degree of likelihood			
STANDARD 3	GEOMETRIC REASONING			
3.2	Find perimeter and area of common polygons			
3.3	Describe, model, identify, and classify attributes of 3-dimensional shapes			
3.5	Carryout simple unit conversion in a system of measurement			
3.5	Use appropriate tools to measure linear objects in metric units (i.e., centimeters and meters) and standard units (i.e., half inch, inch, foot, yard)			

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Content Standard		Projected Delivery Window	Need for Resources or Instructional Strategies	Professional Development Needs
State Established Benchmark	Critical Competencies At the end of fourth grade, a proficient student will:			
STANDARD 4	ALGEBRAIC AND FUNCTIONAL REASONING			
4.1	Recognize, describe and extend patterns			
4.2	Use number patterns to investigate properties of numbers (i.e., even/odd) and operations (i.e., multiplicative, additive identities, commutative, associative, distributive)			
4.2	Identify addition and subtraction as inverse operations			
4.2	Identify multiplication and division as inverse operations			
4.3	Read, write, and solve equations using symbols and variables			
4.4	Develop an understanding of equivalence by expressing numbers in a variety of ways			