

First Grade Math

Helena Public Schools 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 grade 1, a proficient student will:	Projected Delivery Window	Need for Resources or Instructional Strategies	Professional Development Needs
STANDARD 1	NUMBERS AND OPERATIONS			
1.1	identifies place value to 99 verbally and written			
1.3	fluent with addition facts to 12			
1.3	fluent with subtraction facts to 6			
1.3	add 3 one-digit numbers to 10 with manipulatives			
1.3	count whole numbers to 100			
1.3	write whole numbers to 100			
1.4	explore equal parts with fractions			
1.4	count groups of pennies, nickels, dimes to .50 cents			
1.4	identify value of penny, nickel, dime			
1.5	know days of the week and months of the year			
1.5	give date in month, day, year form			
1.5	select appropriate tools for measurement			
1.5	tell time to the nearest hour			
STANDARD 2	DATA ANALYSIS, PROBABILITY, AND STATISTICS			
2.1	collect, organize, and display data (tables, tallies with the whole class)			
2.2	interpret simple graph (e.g., who has more)			
2.2	interpret and analyze data as a whole class			
2.3	explore simple probability			
STANDARD 3	GEOMETRIC REASONING			
3.1	describe likes and differences of square (□), triangle (Δ), circle (○)			
3.1	manipulate shapes to make new shapes			

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 grade 1, a proficient student will:	Projected Delivery Window	Need for Resources or Instructional Strategies	Professional Development Needs
3.1	identify similar shapes			
3.1	identify open and closed shapes			
3.3	explore attributes of 2-dimensional and 3-dimensional shapes			
3.5	accurately measure and compare with non-standard units for length, weight,			
3.5	explore standard units of measurements			
STANDARD 4	ALGEBRAIC AND FUNCTIONAL REASONING			
4.1	Recognize describe, extend and create a variety of patterns			
4.1	skip count 2's, 5's, 10's			
4.1	construct simple repeating patterns (A,B,AB) (ABC,ABC)			
4.1	explore pattern transformations			
4.2 / 4.3	explore inverse operations to 10 using missing variables ($\square + 3 = 12$)			
4.3	write an equation to connect concrete to symbolic			
4.3	read, write, and solve equations			
4.3	solve addition equations to 12			
4.3	solve subtraction equations to 6			