

MATH BENCHMARKS ASSESSED AT GRADES 3-5

SUNSHINE STATE STANDARDS BENCHMARK	ITEM FORMATS		
GRADES 3-5	Grade 3	Grade 4	Grade 5
STRAND A: NUMBER SENSE, CONCEPTS, AND OPERATIONS			
MA.A.1.2.1 names whole numbers combining three-digit numeration (hundreds, tens, ones) and the use of number periods, such as ones, thousands, and millions and associates verbal names, written word names, and standard numerals with whole numbers, commonly used fractions, decimals, and percents.	Assessed with A.1.2.4	Assessed with A.1.2.4	Assessed with A.1.2.4
MA.A.1.2.2 understands the relative size of whole numbers, commonly used fractions, decimals, and percents.	MC	MC	MC, GR
MA.A.1.2.3 understands concrete and symbolic representations of whole numbers, fractions, decimals, and percents in real-world situations.	Assessed with A.1.2.4	Assessed with A.1.2.4	Assessed with A.1.2.4
MA.A.1.2.4 understands that numbers can be represented in a variety of equivalent forms using whole numbers, decimals, fractions, and percents. (Also assesses A.1.2.1 and A.1.2.3)	MC	MC	MC, GR
MA.A.2.2.1 uses place-value concepts of grouping based upon powers often (thousandths, hundredths, tenths, ones, tens, hundreds, thousands) within the decimal number system.	MC	MC	MC, GR
MA.A.2.2.2 recognizes and compares the decimal number system to the structure of other number systems such as the Roman numeral system or bases other than ten.	Not assessed	Not assessed	Not assessed
MA.A.3.2.1 understands and explains the effects of addition, subtraction, and multiplication on whole numbers, decimals, and fractions, including mixed numbers, and the effects of division on whole numbers, including the inverse relationship of multiplication and division.	MC	MC	MC
MA.A.3.2.2 selects the appropriate operation to solve specific problems involving addition, subtraction, and multiplication of whole numbers, decimals, and fractions, and division of whole numbers.	MC	MC	MC
MA.A.3.2.3 adds, subtracts, and multiplies whole numbers, decimals, and fractions, including mixed numbers, and divides whole numbers to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator.	MC	MC	MC, GR
MA.A.4.2.1 uses and justifies different estimation strategies in a real-world problem situation and determines the reasonableness of results of calculations in a given problem situation. (Also assesses B.3.2.1)	MC	MC	SR
MA.A.5.2.1 understands and applies basic number theory concepts, including primes, composites, factors, and multiples.	MC	MC	MC

MC: multiple-choice
 GR: gridded-response
 SR: short-response
 ER: extended-response

MATH BENCHMARKS ASSESSED AT GRADES 3-5 (CONTINUED)

SUNSHINE STATE STANDARDS BENCHMARK	ITEM FORMATS		
	GRADES 3-5	Grade 3	Grade 4
STRAND B: MEASUREMENT			
MA.B.1.2.1 uses concrete and graphic models to develop procedures for solving problems related to measurement including length, weight/mass, time, temperature, perimeter, area, volume/capacity, and angle.	Not assessed	Not assessed	Assessed with C.2.2.1
MA.B.1.2.2 solves real- world problems involving length, weight, perimeter, area, capacity, volume, time, temperature, and angles.	MC	MC	MC, GR
MA.B.2.2.1 uses direct (measured) and indirect (not measured) measures to calculate and compare measurable characteristics.	MC	MC	MC, GR
MA.B.2.2.2 selects and uses appropriate standard and nonstandard units of measurement, according to type and size. (Also assesses B.4.2.1)	MC	MC	MC
MA.B.3.2.1 solves real- world problems involving estimates of measurements, including length, time, weight, temperature, money, perimeter, area, and volume.	Assessed with A.4.2.1	Assessed with A.4.2.1	Assessed with A.4.2.1
MA.B.4.2.1 determines which units of measurement, such as seconds, square inches, and dollars per tank-full, to use with answers to real-world problems.	Assessed with B.2.2.2	Assessed with B.2.2.2	Assessed with B.2.2.2
MA.B.4.2.2 selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real- world situations.	MC	MC	Not assessed
STRAND C: GEOMETRY AND SPATIAL SENSE			
MA.C.1.2.1 given a verbal description, draws and/or models two- and three-dimensional shapes and uses appropriate geometric vocabulary to write a description of a figure or a picture composed of geometric figures.	MC	MC	MC
MA.C.2.2.1 understands the concepts of spatial relationships, symmetry, reflections, congruency, and similarity. (Also assesses B.1.2.1, B.1.2.2, C.1.2.1, and C.3.2.1)	MC	MC	MC, ER
MA.C.2.2.2 predicts, illustrates, and verifies which figures could result from a flip (reflection), slide (translation), or turn (rotation) of a given figure.	MC	MC	MC
MA.C.3.2.1 represents and applies a variety of strategies and geometric properties and formulas for two- and three-dimensional shapes to solve real-world and mathematical problems. (Also assesses C. 2.2.1 and C.3.2.2)	MC	MC	MC, SR
MA.C.3.2.2 identifies and plots positive ordered pairs (whole numbers) in a rectangular coordinate system (graph).	MC	MC	MC

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SUNSHINE STATE STANDARDS BENCHMARK GRADES 3-5	ITEM FORMATS		
	Grade 3	Grade 4	Grade 5
STRAND D: ALGEBRAIC THINKING			
MA.D.1.2.1 describes a wide variety of patterns and relationships through models such as manipulatives, tables, graphs, rules using algebraic symbols. (Also assesses D.I. 2.2)	MC	MC	MC, GR
MA.D.1.2.2 generalizes a pattern, relation, or function to explain how a change in one quantity results in a change in another. (Also assesses D.I. 2.1)	Not assessed	Not assessed	SR
MA.D.2.2.1 represents a given simple problem situation using diagrams, models, and symbolic expressions translated from verbal phrases, or verbal phrases translated from symbolic expressions, etc. (Also assesses D.2.2.2)	MC	MC	MC
MA.D.2.2.2 uses informal methods, such as physical models and graphs, to solve real- world problems involving equations and inequalities. (Also assesses D.2.2.1)	MC	MC	MC, GR
STRAND E: DATA ANALYSIS AND PROBABILITY			
MA.E.1.2.1 solves problems by generating, collecting, organizing, displaying, and analyzing data using histograms, bar graphs, circle graphs, line graphs, pictographs, and charts. (Also assesses E.1.2.2 and E.1.2.3)	MC	MC	MC, GR, ER
MA.E.1.2.2 determines range, mean, median, and mode from sets of data. (Also assesses E.1.2.3)	MC	MC	MC, GR
MA.E.1.2.3 analyzes real- world data to recognize patterns and relationships of the measures of central tendency using tables, charts, histograms, bar graphs, line graphs, pictographs, and circle graphs generated by appropriate technology, including calculators and computers.	Assessed with E.1.2.1 and E.1.2.2	Assessed with E.1.2.1 and E.1.2.2	Assessed with E.1.2.1 and E.1.2.2
MA.E.2.2.1 uses models, such as tree diagrams, to display possible outcomes and to predict events.	MC	MC	SR
MA.E.2.2.2 predicts the likelihood of simple events occurring.	MC	MC	MC
MA.E.3.2.1 designs experiments to answer class or personal questions, collects information, and interprets the results using statistics (range, mean, median, and mode) and pictographs, charts, bar graphs, circle graphs, and line graphs. (Also assesses E.3.2.2)	Not assessed	Not assessed	MC
MA.E.3.2.2 uses statistical data about life situations to make predictions and justifies reasoning.	Not assessed	Not assessed	Assessed with E.3.2.1

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