



**CORRELATION
SUNSHINE STATE STANDARDS**

COURSE TITLE: Integrated Mathematics 2

COURSE NUMBER: 1207320

SUBMISSION TITLE: Contemporary Mathematics in Context, COURSE 2 © 2003

PUBLISHER: Glencoe/McGraw-Hill

BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT
1. Demonstrate understanding and use of the real number system.	
MA.A.1.4.1 associate verbal names, written word names, and standard numerals with integers, rational numbers, irrational numbers, real numbers, <i>and complex numbers.</i> ¹	290 , T299, 301, 397 , 494, 497
MA.A.1.4.2 understand the relative size of integers, rational numbers, irrational numbers, and real numbers.	183, 234-237 , 297, 429
MA.A.1.4.3 understand concrete and symbolic representations of real <i>and complex numbers</i> in real-world situations.	3, 21, 36, 39 , 57, T114
MA.A.1.4.4 understand that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, absolute value, <i>and logarithms.</i>	T290, T294, 497 , 511, 521, 539
MA.A.2.4.1 understand <i>and use</i> the basic concepts of limits and infinity.	T30, T521, 528-529
MA.A.2.4.2 understand and use the real number system.	122 , 144, 158 , T468

¹ **The portions printed in italic type are not required for this course.**

Indepth = Bold text

Mentioned = Plain text

BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT
MA.A.3.4.1 understand and explain the effects of addition, subtraction, multiplication, and division on real numbers, including square roots, exponents, and appropriate inverse relationships.	T34, 44 , T256 , T298, 323, 474
MA.A.3.4.2 select and justify alternative strategies, such as using properties of numbers, including inverse, identity, distributive, associative, and transitive, that allow operational shortcuts for computational procedures in real-world or mathematical problems.	41-45 , 50, 52-53 , 146-147 , 185, T290 , 300-302
MA.A.3.4.3 add, subtract, multiply, and divide real numbers, including square roots and exponents, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator.	12, 13 , T78 , 174, 293, 397
2. Demonstrate an understanding of the fundamental concepts of logic and of deductive and inductive reasoning.	
MA.C.1.4.1 use properties and relationships of geometric shapes to construct formal and informal proofs.	89 , 165 , 370, 387, 395, T529
3. Demonstrate an understanding of coordinate and transformational geometry.	
MA.C.2.4.1 understand geometric concepts such as perpendicularity, parallelism, <i>tangency</i> , congruency, similarity, reflections, symmetry, and transformations including flips, slides, turns, enlargements, rotations, <i>and fractals</i> .	116 , 119 , 129 , 141 , 143 , 428

BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT
MA.C.3.4.2 using a rectangular coordinate system (graph), apply and algebraically verify properties of two- <i>and three</i> -dimensional figures, including distance, midpoint, slope, parallelism, and perpendicularity.	69, 84-86 , T90, 91 , 171, 182, T441
4. Demonstrate the ability to analyze and express patterns, relations, and functions in a variety of ways, including linear and quadratic equations and coordinate graphs.	
MA.D.1.4.1 describe, analyze, and generalize relationships, patterns, and functions using words, symbols, variables, tables, and graphs.	237, 240, 270, 281 , 435, 541-542, 546
MA.D.1.4.2 determine the impact when changing parameters of given functions.	238-240, T256 , T274, 437-438
5. Demonstrate the solution of real-world and mathematical problems, applying measurement, algebraic, and geometric concepts and techniques.	
MA.A.4.4.1 use estimation strategies in complex situations to predict results and to check the reasonableness of results.	172, 191, 487, 527
MA.B.1.4.1 use concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two-and three dimensional shapes, including rectangular solids, cylinders, cones, and pyramids.	123, 137, 237 , 238, 247, 472
MA.B.1.4.2 use concrete and graphic models to derive formulas for finding rate, distance, time, angle measures, <i>and arc lengths</i> .	391, 398 , T404, 414, 420
MA.B.1.4.3 relate the concepts of measurement to similarity and proportionality in real-world situations.	143, 145 , 291, T376 , T395, 408, T416, 417,
MA.B.3.4.1 solve real-world and mathematical problems involving estimates of measurements, including length, time, weight/mass, temperature, money, perimeter, area, <i>and</i> volume and estimate the effects of measurement errors on calculations.	134-135 , 251-252, 272-273, 287-288, 399, 441, 527

BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT
MA.C.3.4.1 represent and apply geometric properties and relationships to solve real-world and mathematical problems including ratio, proportion, and properties of right triangle trigonometry.	T133 , 248-249, 397-398 , 409, 428 , 545
MA.D.2.4.1 represent real-world problem situations using finite graphs, matrices, sequences, series, <i>and recursive relations</i> .	9-10 , 19 , T29, T78 , 177, 356, 504, 551-552
MA.D.2.4.2 use systems, of equations and inequalities to solve real-world problems graphically, algebraically, <i>and with matrices</i> .	66, 70 , 151 , T101 , 547
6. Demonstrate the use of data analysis techniques.	
MA.E.1.4.1 interpret data that has been collected, organized, and displayed in charts, tables, and plots.	3, 219, T231, 379, 432, 457, 492-493
MA.E.1.4.2 calculate measures of central tendency (mean, median, and mode) and dispersion (range, <i>standard deviation</i> , <i>and variance</i>) for complex sets of data and determines the most meaningful measure to describe the data.	4, 108-109 , 175 , 224, 491
MA.E.1.4.3 analyze real-world data and make predictions of larger populations by <i>applying formulas to calculate measures of central tendency and dispersion using the sample population data and using appropriate technology, including calculators and computers</i> .	188, T197, T231 , 233 , 543-544
MA.E.3.4.1 design and perform real-world statistical experiments that involve more than one variable, then analyze results and report findings.	171-172 , 492-493 , 548
MA.E.3.4.2 explain the limitations of using statistical techniques and data in making inferences and valid arguments.	197, 206-207 , 213, T218, T225, T540
7. Demonstrate the use of probability techniques.	
MA.E.2.4.1 determine probabilities using counting procedures, tables, tree diagrams, <i>and formulas for permutations and combinations</i> .	T462, T468, T483-484

BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT
MA.E.2.4.2 determine the probability for simple and compound events as well as independent and dependent events.	458, 474, 498, 548
8. Demonstrate understanding and apply theories related to numbers.	
MA.A.5.4.1 apply special number relationships such as sequences <i>and series</i> to real-world problems.	T153, T487, 504-505, 528

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