



**CORRELATION
SUNSHINE STATE STANDARDS**

COURSE TITLE: Integrated Mathematics 1

COURSE NUMBER: 1207310

SUBMISSION TITLE: Contemporary Mathematics in Context, COURSE 1 © 2003

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BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT
1. Demonstrate understanding and use of numbers and 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	9, 49, 51, 85, 213, 362, 366
MA.A.1.4.2 understand the relative size of integers, rational numbers, irrational numbers, and real numbers.	20-21, 52 , 71-72 , 79, 168 , 192, T355
MA.A.1.4.3 understand concrete and symbolic representations of real <i>and complex numbers</i> in real-world situations.	73, 90 , 185 , 187 , 213 , 420
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>	64, 111, 168 , T193, T370 , T425
MA.A.2.4.2 understand and use the real number system.	47-49, 73, 370, 525
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.	66, 71 , T96 , 160 , 170, 224

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.3.4.2 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.	119 , T211, T233, 239-241 , 480, 459
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.	73, 367-368 , T424, 429 , T488
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 <i>formal and</i> informal proofs.	256, 276, 291, 360 , 368 , 386
3. Demonstrate an understanding of geometric terminology and properties and coordinate geometry.	
MA.C.2.4.1 understand geometric concepts such as perpendicularity, parallelism, <i>tangency</i> , congruency, similarity, <i>reflections</i> , <i>symmetry</i> , and <i>transformations including flips, slides, turns, enlargements, rotations, and fractals</i> .	19, 75 , 160 , 273 , 293 , 387 , T396 , T402 , 449
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.	75, 175, 183 , 190 , 196 , 201 , 369
4. Demonstrate the ability to analyze and express patterns, relations, and functions in a variety of ways, including linear equations and coordinate graphs.	

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MA.D.1.4.1 describe, analyze, and generalize relationships, patterns, and functions using words, symbols, variables, tables, and graphs.	T181, 197 , T200 , 215 , 248 , 430 , 456
MA.D.1.4.2 determine the impact when changing parameters of given functions.	144-146 , 201, 435
5. Demonstrate the solution of real-world and mathematical problems, applying measurement, algebraic, and geometric techniques.	
MA.A.4.4.1 use estimation strategies in complex situations to predict results and to check the reasonableness of results.	42, 111, 197-198 , 327-328 , 498, 512
MA.A.5.4.1 apply special number relationships such as sequences <i>and series</i> to real-world problems.	114 , 119 , 137 , 337, T429 , 438
MA.B.1.4.1 use concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, <i>and volume of two-and three-dimensional shapes, including rectangular solids, cylinders, cones, and pyramids.</i>	136, 240, T333 , 372 , T373-374 , 379
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>	65, 182-185 , T362, 386-387
MA.B.1.4.3 relate the concepts of measurement to similarity and proportionality in real-world situations.	176-177 , T180, 369-370 , 382
MA.B.2.4.1 select and use direct (measured) and indirect (not measured) methods of measurement as appropriate.	4-5 , 172, 179, 362-363 , 416-417
MA.B.2.4.2 solve real-world problems involving rated measures (miles per hour, feet per second).	141-143 , 150, 155 , 185
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 volume</i> and estimate the effects of measurement errors on calculations.	63, 99-100 , 167, 193, 367-370

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MA.C.3.4.1 represent and apply geometric properties and relationships to solve real-world and mathematical problems including ratio, proportion, <i>and properties of right triangle trigonometry.</i>	135-136, 161, T362, 365, 369, 379
MA.D.2.4.1 represent real-world problem situations using finite graphs, <i>matrices, sequences, series, and recursive relations.</i>	114, T120, 183, T270, T274, T422, 441
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.	T4, T21, 79, 93, 98-99, 262, 485-486
MA.E.1.4.2 calculate measures of central tendency (mean, median, and mode) and dispersion (range, <i>standard deviation, and variance</i>) for complex sets of data and determines the most meaningful measure to describe the data.	34, 64, 72, 85, 94-96
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</i> using the sample population data and using appropriate technology, including calculators and computers.	68-70, 94, T96, 243-244, 488
MA.E.3.4.1 design and perform real-world statistical experiments that involve more than one variable, then analyze results and report findings.	160, 369-370, 441, 488, 537, 542
MA.E.3.4.2 explain the limitations of using statistical techniques and data in making inferences and valid arguments.	36, 39, T65, T207, 522
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>	489, 500-501, 509, 512, 513-515
MA.E.2.4.2 determine the probability for simple <i>and compound</i> events as well as independent <i>and dependent</i> events.	485-490, 494, 495, 513-518

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