

Florida FCAT Reading Content and Mathematics Benchmarks (Grades 9-10)

Correlated to *Career Choices*, *Instructor's Guide*, *Possibilities*, and *Lifestyle Math*

Grade 9-10 Benchmark	<i>Career Choices</i>	<i>Instructor's Guide</i>	<i>Possibilities</i>	<i>Lifestyle Math</i>
FCAT Reading Content				
LA.A.1.4.2 Selects and uses strategies to understand words and text, and to make and confirm inferences from what is read, including interpreting diagrams, graphs, and statistical illustrations.	27, 59, 69-71, 118-119, 211-213, 272-273	4/34-4/35	Journal entries and follow-up questions throughout text; 38-39, 66-68, 79, 84-86, 170-171, 173-177, 213, 219-220, 238-239	
LA.A.2.4.1 Determines the main idea and identifies relevant details, methods of development, and their effectiveness in a variety of types of written material.	Practiced throughout	2/10-2/14	Follow-up questions throughout the text	
LA.A.2.4.2 Determines the author's purpose and point of view and their effects on the text. (Includes LA.A.2.4.5 Identifies devices of persuasion and methods of appeal and their effectiveness.)	50-53	4/32, 4/33-4/35	29-31, 54-56, 58, 84, 93, 224, 260-261	
LA.A.2.4.7 Analyzes the validity and reliability of primary source information and uses the information appropriately.	Chapters 1-6	4/1-4/106, 4/42, 4/63	38-94, 139-140	
LA.A.2.2.7 Recognizes the use of comparison and contrast in a text.	Integration of <i>Possibilities</i> with <i>Career Choices</i>	2/10-2/14	38-39, 66-68, 79, 84-86, 107-171, 173-177, 219-220, 238-239	
LA.A.2.4.4 Locates, gathers, analyzes, and evaluates written information for a variety of purposes, including research projects, real-world tasks, and self-improvement. (Includes LA.A.2.4.6 Selects and uses appropriate study and research skills and tools according to the type of information being gathered or organized, including almanacs, government publications, microfiche, news sources, and information services.)	27, 59, 69-71, 78-91, 116, 118-120, 150-157, 160, 211-213, 255-256, 258, 261-262, 268-273, 279, online activities	4/34-4/35, 4/76, 4/94-4/95, 7/6-7/14	29-32, 28, 54, 75, 79, 84, 94, 106-107, 110, 117, 137, 161, 164-165, 174-177, 207, 210, 215, 253, 261, 269, 272, 274-279	
LA.A.2.4.8 Synthesizes information from multiple sources to draw conclusions.	124-141, 148-159, 211-213, online activities	4/85-4/106, 7/6-7/14	38, 79, 106-107, 165, 174-177, 253, 261, 272	

Grade 9-10 Benchmark	Career Choices	Instructor's Guide	Possibilities	Lifestyle Math
LA.E.2.4.1 Analyzes the effectiveness of complex elements of plot, such as setting, major, events, problems, conflicts, and resolutions.	10-13	11-18, 21-23, 25-26, 41, 47-56, 58-60, 63, 76-78, 80-86, 87-89, 95-102, 127-138, 142-163, 171, 178-211, 228-239, 240-248, 254-261		
LA.E.2.2.1 Recognizes cause-and-effect relationships in literary texts. [Applies to fiction, nonfiction, poetry, and drama.]	Scope and sequence of planning process taught throughout text	2/10-2/14	Journal entries and follow-up questions throughout text	
FCAT Mathematics				
MA.A.1.4.2 Understands the relative size of integers, rational numbers, irrational numbers, and real numbers.		4/47-4/48, 4/55-4/56, 4/60-4/61, 4/64-4/65, 4/68, 4/132		14, 20, 40, 75, 81-83, 86-87, 93, 95, 100
MA.A.1.4.4 Understands that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, absolute value, and logarithms. (Also assesses A.1.2.1 and A.1.4.3)		4/47-4/48, 4/55-4/56, 4/60-4/61, 4/64-4/65, 4/68, 4/132		18-22, 37-38, 40, 64, 75, 81-83, 86-87, 93-96, 100
MA.A.3.4.1 Understands and explains the effects of addition, subtraction, multiplication, and division on real numbers, including square roots, exponents, and appropriate inverse relationships. (Also assesses A.2.4.2)	76-101, 116-119, 208-209	4/47-4/68, 4/74, 4/130-4/133		12-110
MA.A.3.4.2 Selects and justifies 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. (Also assesses A.2.4.2 and A.3.3.2)	76-101, 116-119, 208-209	4/47-4/68, 4/74, 4/130-4/133		18-22, 26, 33-42, 56-57, 62-65, 68-84, 86-87, 90-96
MA.A.3.4.3 Adds, subtracts, multiplies, and divides real numbers, including square roots and exponents, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. (Also assesses A.2.4.2)	76-101, 116-119, 208-209	4/47-4/68, 4/74, 4/130-4/133		12-110
MA.A.4.4.1 Uses estimation strategies in complex situations to predict results and to check the reasonableness of results. (Also assesses A.4.2.1 and B.3.4.1)	76-101, 116-119, 208-209	4/47-4/68, 4/74, 4/130-4/133		12-110

Grade 9-10 Benchmark	Career Choices	Instructor's Guide	Possibilities	Lifestyle Math
MA.B.1.4.1 Uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volumes of two- and three-dimensional shapes, including rectangular solids, cylinders, cones, and pyramids. (Also assesses B.1.2.2)				
MA.B.1.4.2 Uses concrete and graphic models to derive formulas for finding rate, distance, time, angle measures, and arc lengths. (Also assesses B.1.2.2)				
MA.B.1.4.3 Relates the concepts of measurement to similarity and proportionality in real-world situations.	76-101, 116-119, 208-209, 212-213	4/47-4/68, 4/74, 4/130-4/133		78-21, 32-37, 62-64, 82-83, 98-101
MA.B.2.4.1 Selects and uses direct (measured) or indirect (non measured) methods of measurement as appropriate.		4/58		48-63
MA.B.2.4.2 Solves real-world problems involving rated measures (miles per hour, feet per second). (Also assesses B.2.3.2)		4/47-4/48, 4/55, 4/56, 4/61, 4/74, 4/132		18-21, 32-37, 81-83, 98-101
MA.C.1.4.1 Uses properties and relationships of geometric shapes to construct formal and informal proofs. (Also assesses C.1.2.1 and C.1.3.1)				
MA.C.2.4.1 Understands geometric concepts such as perpendicularity, parallelism, tangency, congruency, similarity, reflections, symmetry, and transformations including flips, slides, turns, enlargements, rotations, and fractals. (Also assesses B.1.4.3, C.1.4.1, and C.3.4.1)				
MA.C.2.4.2 Analyzes and applies geometric relationships involving planar cross-sections (the intersections of a plane and a three-dimensional figure).				
MA.C.3.4.1 Represents and applies geometric properties and relationships to solve real-world and mathematical problems including ratio, proportion, and properties of right triangle trigonometry. (Also assesses C.2.4.1)				
MA.C.3.4.2 Using a rectangular coordinate systems (graph), applies and algebraically verifies properties of two- and three-dimensional figures, including distance, midpoint, slope, parallelism, and perpendicularity. (Also assesses C.3.3.2 and D.2.4.1)				
MA.D.1.4.1 Describes, analyzes, and generalizes relationships, patterns, and functions using words, symbols, variables, tables, and graphs.	76-101, 116-119, 208-209, 212-213	4/47-4/68, 4/74, 4/130-4/133		86-87, 93-94

Grade 9-10 Benchmark	Career Choices	Instructor's Guide	Possibilities	Lifestyle Math
MA.D.1.4.2 Determines the impact when changing parameters of given functions.				
MA.D.2.4.2 Uses systems of equations and inequalities to solve real-world problems graphically, algebraically, and with matrices. (Also assesses D.2.3.1, D.2.3.2, and D.2.4.1)				
MA.E.1.4.1 Interprets data that have been collected, organized, and displayed in charts, tables, and plots. (Also assesses E.1.3.1 and E.1.4.3)	76-101, 116-119, 208-209, 212-213	4/47-4/68, 4/74, 4/130-4/133		12-13, 17, 20-21, 23, 36-37, 44-46, 51, 53-54, 56-57, 62-64, 68-71, 73-75, 77, 79-80, 84-85, 92-97, 100-101
MA.E.1.4.2 Calculates measures of central tendency (mean, median, and mode) and dispersion (range, standard deviation, and variance) for compiles sets of data and determines the most meaningful measure to describe the data. (Also assesses E.1.4.3)	76-101, 116-119, 208-209, 212-213	4/47-4/68, 4/74, 4/130-4/133		12-13, 17, 20-21, 23, 36-37, 44-46, 51, 53-54, 56-57, 62-64, 68-71, 73-75, 77, 79-80, 84-85, 92-97, 100-101
MA.E.2.4.1 Determines probabilities using counting procedures, tables, tree diagrams, and formulas for permutations and combinations. (Also assesses E.2.4.2)				
MA.E.3.4.1 Designs and performs real-world statistical experiments that involve more than one variable, then analyzes results and reports findings. (Also assesses E.3.3.1 and E.3.4.2)				