



Florida Algebra 1b with CORD Algebra 1 2nd Edition
CORRELATION
SUNSHINE STATE STANDARDS
& GRADE LEVEL EXPECTATIONS

SUBJECT: Algebra 1b

SUBMISSION TITLE: Algebra 1 Mathematics in Context, Second Edition

PUBLISHER: CORD Communications, Inc.

GRADE:

STRAND:

STANDARD:

BENCHMARK	PAGES(S) OR LOCATIONS(S) WHERE TAUGHT	I/M*
1. Demonstrate understanding of the different ways numbers are represented and used in the real world.		
MA.A.1.4.1 associate verbal names, written word names, and standard numerals with integers, rational numbers, irrational numbers, real numbers, and <i>complex numbers</i> .	4-8, 18-25, 26-31, 105, 505, TE 528, 565, 567, 571, 572, 576, 578, 581-585, 694-698	I
MA.A.1.4.2 understand the relative size of integers, rational numbers, irrational numbers, and real numbers.	7, 8, 13, 64-66, 76, 102, 537-538	I
MA.A.1.4.3 understand concrete and symbolic representations of real and <i>complex</i> numbers in real-world situations.	See features "Four Step Plan" pages 29, 90, 158, 245, 317, 346, 423, 460, 534, 579, 642, 720; "Workplace Communication" pages 111, 172, 216, 302, 353, 401, 473, 509, 605, 705; "Practice and Problem Solving" exercises at end of each lesson; "Math Applications" exercises at end of each chapter	I

Florida Algebra 1b with CORD Algebra 1 2nd Edition

<p>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>.</p>	<p>4-8, 13-17, 18-25, 26-31, 32-36, 37-43, 44-48, 49-53, 59-77, 93-96, 137, 155-160, 174, 180-184, 190-192, 564-569, 570-574, 575-580, 581-585, 694-698, 699-708, 709-716, 717-721, See features “Practice and Problem Solving” and “Mixed Review” exercises at end of each lesson; “Math Applications” exercises at end of each chapter</p>	<p>I</p>
<p>2. Demonstrate understanding of number systems.</p>		
<p>MA.A.2.4.1 understand <i>and use</i> the basic concepts of limits and infinity.</p>	<p>219, 312-319, 469, 581-585</p>	<p>M</p>
<p>MA.A.2.4.2 understand and use the real number system.</p>	<p>4-8, 13-17, 18-25, 26-31, 13, 32-36, 37-43, 44-48, 49-53, 59-77, 93-96, 102, 105, 137, 155-160, 174, 180-184, 190-192, 505, TE 528, 537-538, 564-569, 570-574, 575-580, 581-585, 694-698, 699-708, 709-716, 717-721, See features “Four Step Plan” pages 29, 90, 158, 245, 317, 346, 423, 460, 534, 579, 642, 720; “Workplace Communication” pages 111, 172, 216, 302, 353, 401, 473, 509, 605, 705; “Practice and Problem Solving” and “Mixed Review” exercises at end of each lesson; “Math Applications” exercises at end of each chapter</p>	<p>I</p>
<p>3. Demonstrate understanding of the effects of operations on numbers and the relationships among these operations, select appropriate operations, and compute for problem solving.</p>		
<p>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.</p>	<p>85-86, TE 86, 146-155, 161-168, 169-174, 463-465, 557, 575-580,</p>	<p>I</p>

Florida Algebra 1b with CORN Algebra 1 2nd Edition

<p>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.</p>	<p>4-8, 13-17, 18-25, 26-31, 13, 32-36, 37-43, 44-48, 49-53, 59-77, 93-96, 102, 105, 137, 155-160, 174, 180-184, 190-192, 505, TE.528, 537-538, 564-569, 570-574, 575-580, 581-585, 694-698, 699-708, 709-716, 717-721, Workplace Communication” pages 111, 172, 216, 302, 353, 401, 473, 509, 605, 705; “Practice and Problem Solving”” and “Mixed Review” exercises at end of each lesson; “Math Applications” exercises at end of each chapter</p>	<p>I</p>
<p>4. Use estimation in problem solving and computation. MA.A.4.4.1 use estimation strategies in complex situations to predict results and to check the reasonableness of results.</p>	<p>61, 125-127, 143, 304-312, 313, 323-324, 420-425, 620, 694-698, 709-716, See features “Four Step Plan” pages 29, 90, 158, 245, 317, 346, 423, 460, 534, 579, 642, 720</p>	<p>I</p>
<p>5. Demonstrate understanding of 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.</p>	<p>9-12, 59, 62, 76, 85, 280-286, 312, 317, 611, 651</p>	<p>I</p>
<p>6. Estimate measurements in real-world problem situations. MA.B.3.4.1 solve real-world and mathematical problems involving estimates of measurements, including length, time, weight/mass, temperature, money, perimeter, area, and volume and estimate the effects of measurement errors on calculations.</p>	<p>44-48, 49-53, 60, 77, 85-92, 93-96, 97-102, 103-106, 107-113, 114-117, 118-121, 128-143, 154, 160, 174, 240, 277, 290, 304, 306, 308, 310, 311, 319, 320, 323, 324, 339, 414, 422, 455, 458-459, 469, 500, 522, 563, 578-580, 586-589, 600, 614-617, 632, 642, 644, 646, 655, 664-665, 669-672, 674-677, 680-687, 688-693, 694-698, 699-708, 709-716, 720, 728-741</p>	<p>I</p>
<p>7. Use coordinate geometry to locate objects in two dimensions and to describe objects algebraically. 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.</p>	<p>155, 156, 158, 159, 213, 654, 680-687, 699-708, 709-716, 728-741</p>	<p>I</p>

Florida Algebra 1b with CORD Algebra 1 2nd Edition

<p>MA.C.3.4.2 using a rectangular coordinate system (graph), apply and algebraically verify properties of two- and three-dimensional figures, including distance, midpoint, slope, parallelism, and perpendicularity</p>	<p>213, 217, 254, 276</p>	<p>M</p>
<p>8. Describe, analyze, and generalize a wide variety of patterns, relations, and functions. MA.D.1.4.1 describe, analyze, and generalize relationships, patterns, and functions using words, symbols, variables, tables, and graphs.</p>	<p>9-12, 27, 59, 62, 76, 85, 241-248, 256-259, 280-286, 287-289, 291-295, 296-303, 304-311, 312-319, 320-322, 323-339, 348, 367, 373, 410, 442, 448, 469, 500, 511, 611, 620-625, 626-632, 637, 640-642, 651, 662-663, 664-678</p>	<p>I</p>
<p>MA.D.1.4.2 determine the impact when changing parameters of given functions.</p>	<p>256-259, 274, 296-303, 318, 348, 620-625, 698</p>	<p>I</p>
<p>9. Use expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.</p>		
<p>MA.D.2.4.1 represent real-world problem situations using finite graphs, matrices, sequences, series, and recursive relations.</p>	<p>9-12, 32-36, 59, 62, 63, 280-286, 312, 317, 397-403, 404-410, 411-414, 415-419, 420-425, 426-429, 430-439, 518, 538-540, 611, 656</p>	<p>I</p>
<p>MA.D.2.4.2 use systems of equations and inequalities to solve real-world problems graphically, algebraically, and with matrices.</p>	<p>442-448, 449-455, 456-462, 463-469, 470-475, 476-480, 481-493, 518, 531, 532-536, 548, 554, 569, 580, 585, 592, 600, 606, 625, 632, 644, 708, 716, 721</p>	<p>I</p>
<p>10. Demonstrate understanding and use the tools of data analysis for managing information.</p>		
<p>MA.E.1.4.1 interpret data that has been collected, organized, and displayed in charts, tables, and plots.</p>	<p>32-36, 63, 390-396, 397-403, 404-410, 411-414, 415-419, 420-425, 426-429, 430-439, 448, 505, 518, 538-540, 611, 656</p>	<p>I</p>
<p>MA.E.1.4.2 calculate measures of central tendency (mean, median, and mode) and dispersion (range, standard deviation and variance) for complex sets of data and determine the most meaningful measure to describe the data.</p>	<p>390-396, 399, 402, 403, 419, 421, 430, 432, 436-438, 448, 505, 518, 538-540, 656</p>	<p>I</p>

Florida Algebra 1b with CORRD Algebra 1 2nd Edition

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.	312-319, 323, 324, 325, 332, 338, 404-410, 431, 432, 437, 439, 483, 518, 625	I
11. Identify patterns and make predictions from an orderly display of data using concepts of probability and statistics.			
MA.E.2.4.1	determine probabilities using counting procedures, tables, tree diagrams and <i>formulas for permutations and combinations</i> .	342-348, 349-355, 356-361, 362-367, 368-373, 374-377, 378-387, 462, 505, 536, 574, 648, 687	I
MA.E.2.4.2	determine the probability for simple and compound events as well as independent and dependent events.	342-348, 349-355, 356-361, 362-367, 368-373, 374-377, 378-387, 462, 505, 536, 574, 648, 687	I
12. Use statistical methods to make inferences and valid arguments about real-world situations.			
MA.E.3.4.1	design and perform real-world statistical experiments that involve more than one variable, then analyze results and report findings.	349-355, 375-376	I
MA.E.3.4.2	explain the limitations of using statistical techniques and data in making inferences and valid arguments.	349-355, 375-376	M

*Indepth/Mentioned