

GRADE: _____

VENDOR: CORD Communications, Inc.

INSTRUCTIONAL MATERIALS: CORD Algebra 1, 2nd Edition

SUBJECT: Applied Mathematics II

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COMMENTS: _____

APPLIED MATHEMATICS II

Applied Mathematics II is the second half of the Applied Mathematics course. Upon successful completion of both courses, Algebra I credit will be given. Algebraic concepts will be taught using laboratory activities based on several strategies that include the use of the graphing calculator. Working in groups will be used to develop problem solving skills and social skills needed in the work place as well as in traditional areas. West Virginia teachers are responsible for analyzing the benefits of technology for learning and for integrating technology appropriately in the students' learning environment. See the related grade-level Technology Standards and Objectives.

The evaluation of all mathematics materials is based on separate criteria for three (3) categories:

- **Category I: Standards Based Components**
- **Category II: Technology and Manipulatives**
- **Category III: Mathematics Content**

In order to be approved and listed on the West Virginia Multiple List for Mathematics Materials, each category must be evaluated separately.

- **Category I: Standards Based Components must meet 80% (4/5) of the criteria at "In-depth" and/or "Adequate."**
- **Category II: Technology and Manipulatives must also meet 80% (7/8) of the criteria at "In-depth" and/or "Adequate."**
- **Category III: Mathematics Content must meet 80% of the criteria at "In-depth" and/or "Adequate" for each grade level or course.**

All materials at this grade level must (1) be research based and theory driven; (2) incorporate basic, accurate information that is developmentally appropriate; (3) use interactive activities that actively engage students; (4) provide students with opportunities to model and practice relevant skills; (5) develop higher order thinking opportunities; and (6) be based on national standards. The instructional materials should provide students with opportunities to

(Vendor/Publisher) SPECIFIC LOCATION OF CONTENT WITHIN PRODUCT	(IMR Committee) Responses								
	<i>I = In-depth</i>	<i>A = Adequate</i>	<i>M = Minimal</i>	<i>N = Nonexistent</i>		I	A	M	N
225, 241-248, 274, 280-286, 292, 293, 297, 301, 312, 314, 315, 318, 328-333, 338, 404-410, 432, 437, 448, 469, 511, 662-663, 667, 677	1.	analyze a given set of data for the existence of a pattern numerically, algebraically and graphically; determine the domain and range; and determine if the relation is a function (AM2.2.1)			___	___	___	___	___
218-224, 225-233, 234-240, 242-248, 249-254, 265-277, 282, 286, 292, 303, 311, 319, 327, 373, 403, 410, 414, 442, 462, 500, 511, 523, 527, 529, 531, 625, 632, 687	2.	use investigations to determine the slope of a line given an equation of a line, the graph of a line, and two points to be identified (AM2.2.2)			___	___	___	___	___
213-217, 218, 225-233, 247, 249-254, 282, 442-448, 523-531 Teacher's Resource Book pages 347, 349	3.	use investigations to graph linear equations using <ul style="list-style-type: none"> • slope-intercept • point slope • x- and y-intercepts (AM2.2.3) 			___	___	___	___	___
234-240, 241-248, 249-254, 258, 265-277, 282, 319, 410, 442-448, 475, 523-531, 687	4.	write an equation of a line given <ul style="list-style-type: none"> • graph of a line • two points on the line • the slope and a point • the slope and y-intercept (AM2.2.4) 			___	___	___	___	___

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442-448, 449-455, 456-462, 463-469, 470-475, 476-477, 477-479, 479-480, 481-493, 518, 531, 536, 569, 580, 585, 592, 600, 606, 625, 632, 644, 698, 708, 721	5.	solve systems of linear equations by				___	___	___	___
		<ul style="list-style-type: none"> graphing elimination method substitution method (AM2.2.5) 							
447-448, 454, 461, 468-469, 474-475, 481-493	6.	solve practical problems using systems of linear equations (AM2.2.5)				___	___	___	___
175-178, 558-563, 570-574, 581-585, 586-592, 599, 601-606, 611, 612, 616	7.	add and subtract polynomials (AM2.2.6)				___	___	___	___
570-574, 580, 586-592, 601-606, 608-610, 611-612, 614, 616	8.	multiply and divide binomials by binomials or monomials (AM2.2.7)				___	___	___	___
570-574, 593-599, 600-606, 607-608, 613-617, 633-637, 647	9.	factor polynomials (AM2.2.8)				___	___	___	___
620-625, 626-632, 633-637, 638-644, 645-648, 649-656, 660-662, 664-677, 708	10.	solve quadratic equations by				___	___	___	___
		<ul style="list-style-type: none"> graphing factoring quadratic formula (AM2.2.9) 							
80-84, 581-585, 612	11.	add, subtract, multiply and divide simple rational expressions (AM2.2.10)				___	___	___	___

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397-403, 404-410, 420-425, 426-427, 430-439, 518, 538-540, 656 Teacher's Resource Book pages 309, 313, 315, 317, 333, 335 Supplementary Worksheets page 57	12. interpret data using					—	—	—	—
	<ul style="list-style-type: none"> • use flow charts • histograms • scatter diagrams • normal distribution curves (AM2.2.11) 								
404-410, 426-429 Supplementary Worksheets page 57	13. provide investigations to collect data and use the results to predict specific values of a variable (AM2.2.					—	—	—	—
274, 407-410, 432, 437 Teacher's Resource Book pages 315, 317	14. identify the equation for a line of regression (AM2.2.12)					—	—	—	—