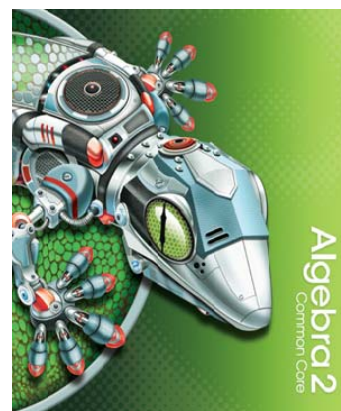
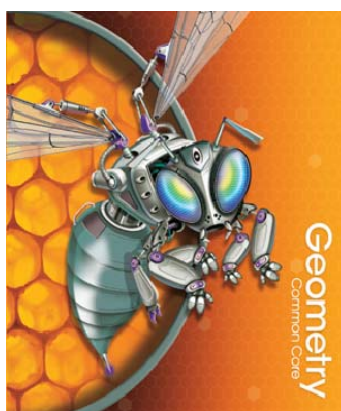


**A Correlation of**

**Pearson Mathematics  
Algebra 1, Geometry, Algebra 2  
Common Core  
©2015**



**to**

**Nebraska's College and Career Ready  
Standards for Mathematics  
Grades 9-11**

**A Correlation of Pearson High School Mathematics  
Algebra 1, Geometry, Algebra 2 Common Core ©2015  
to the Nebraska College and Career Ready Standards for Mathematics**

**Introduction**

This document demonstrates how ***Pearson Algebra 1, Geometry, Algebra 2 Common Core Edition ©2015*** meets the Nebraska College and Career Ready Standards for Mathematics. Correlation references are to the pages of the Student and Teacher's Editions.

***Pearson Algebra 1, Geometry, Algebra 2 Common Core Edition ©2015*** is a rigorous, flexible, and data-driven high school math program designed to ensure high school students master the Common Core State Standards. The program's 5-step lesson design was built for the requirements of the Common Core, and independent research has proven the program's lesson design is effective for all learners.

***Pearson Algebra 1, Geometry, Algebra 2 Common Core Edition ©2015*** balances conceptual understanding, procedural fluency, and the application of mathematics to solve problems and formulate models. The lesson design of the program was built specifically to meet the "rigor" criterion of the Common Core State Standards.

- Each lesson begins with **Interactive Learning**, the *Solve It!*, which immediately engages students in their daily learning according to the Standards for Mathematical Practice.
- The second step of the lesson, **Guided Instruction**, uses visual learning principles and a Thinking/Reasoning strand (seen in the *Know/Need/Plan* and *Think/Plan/Write* boxes) to introduce the Essential Understanding of the lesson by teaching THROUGH and FOR problem-solving. **Interactive Learning** and **Guided Instruction** are both deliberately designed to address the essential elements in the Common Core conceptual category of mathematical modeling.
- In the third step of the lesson, the **Lesson Check**, *Do you know HOW?* exercises measure students' procedural fluency, while *Do you UNDERSTAND?* problems measure students' conceptual understanding.
- In the fourth step of the lesson, **Practice** problems are designed to develop students' fluency in the Content Standards and proficiency with the Mathematical Practices. Real-world STEM problems as well as problems designed to elicit the use of one or more of the Standards for Mathematical Practice are clearly labeled in the **Practice** step of the lesson.
- The final phase of the lesson, **Assess and Remediate**, features a Lesson Quiz to measure students' understanding of lesson concepts. By utilizing the balanced and proven-effective approach of Pearson's 5-step lesson design, you can teach the Common Core State Standards with confidence.

**A Correlation of Pearson High School Mathematics Algebra 1, Geometry, Algebra 2  
to the Nebraska's College and Career Ready Standards for Mathematics**

Nebraska's College and Career Ready Standards for Mathematics Grades 9 – 11	Pearson High Mathematics Algebra 1, Geometry, Algebra 2 ©2015
<b>MATHEMATICAL PROCESSES</b>	
<p>1. Solves mathematical problems. Through the use of appropriate academic and technical tools, students will make sense of mathematical problems and persevere in solving them. Students will draw upon their prior knowledge in order to employ critical thinking skills, reasoning skills, creativity, and innovative ability. Additionally, students will compute accurately and determine the reasonableness of solutions.</p>	<p><b>Algebra 1</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> CB: 45, 81-87, 200-206, 364-369, 378-384, 518-522, 553-558, CCPT: 613, PIAT: 652, 691-697, 726-731 <b>TE:</b> 87A-87B, 206A-206B, 369A-369B, 384A-384B, 522A-522B, 558A-558B, 697A-697B, 731A-731B</p> <p><b>Geometry</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> CCPT: 3, 34-40, 59-67, CCPT: 139, 189-196, 226-233, CCPT: 283, 285-291, 353-358, 367-374, 660-666, 668-674, 762-769 <b>TE:</b> 40A-40B, 67A-67B, 196A-196B, 233A-233B, 291A-291B, 358A-358B, 374A-374B, 666A-666B, 674A-674B, 769A-769B</p> <p><b>Algebra 2</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> 26-32, 114-120, 145-148, CB: 163, 202-208, 240-247, CB: 265, 312-317, CCPT: 359, CB: 413, PIAT: 421, CB: 578, 580-586, CCPT: 613, PIAT: 662 <b>TE:</b> 32A-32B, 120A-120B, 148A-148B, 208A-208B, 247A-247B, 317A-317B, 586A-586B</p>
<p><b>2. Models and represents mathematical problems.</b> Students will analyze relationships in order to create mathematical models given a real-world situation or scenario. Conversely, students will describe situations or scenarios given a mathematical model.</p>	<p><b>Algebra 1</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> CCPT: 3, 4-9, 53-58, CB: 80, CB: 101, 214-220, 234-239, 301-306, CB: 371, 546-552, 705-712, 732-737 <b>TE:</b> 9A-9B, 58A-58B, 220A-220B, 239A-239B, 306A-306B, 552A-552B, 712A-712B, 737A-737B</p>

CB = Concept Bytes  
 CCPT = Common Core Performance Task  
 PIAT = Pull it All Together  
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**A Correlation of Pearson High School Mathematics Algebra 1, Geometry, Algebra 2  
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<p align="center"><b>Nebraska’s College and Career Ready Standards for Mathematics Grades 9 – 11</b></p>	<p align="center"><b>Pearson High Mathematics Algebra 1, Geometry, Algebra 2 ©2015</b></p>
<p>(Continued) <b>2. Models and represents mathematical problems.</b> Students will analyze relationships in order to create mathematical models given a real-world situation or scenario. Conversely, students will describe situations or scenarios given a mathematical model.</p>	<p><b>Geometry</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> 4-10, 43-48, CB: 49, CB: 170, 182-188, CB: 225, CB: 300, CB: 413, CB: 659, 688-695, CB: 696-697, CB: 770 <b>TE:</b> 10A-10B, 48A-48B, 188A-188B, 695A-695B</p> <p><b>Algebra 2</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> CCPT: 3, 18-24, PIAT: 49, 92-98, CB: 164-165, 209-214, CB: 325, 434-441, CB: 477, CB: 594, 614-620, 703-709, 868-874, 928-934 <b>TE:</b> 24A-24B, 98A-98B, 165A-165B, 214A-214B, 441A-441B, 620A-620B, 709A-709B, 874A-874B, 934A-934B</p>
<p><b>3. Communicates mathematical ideas effectively.</b> Students will communicate mathematical ideas effectively and precisely. Students will critique the reasoning of others as well as provide mathematical justifications. Students will utilize appropriate communication approaches individually and collectively and through multiple methods, including writing, speaking, and listening.</p>	<p><b>Algebra 1</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> CCPT:3, CB: 37, PIAT: 67, CCPT: 163, 171-177, CCPT: 233, PIAT: 282, CB: 351, 364-369, 453-459, CB: 559 <b>TE:</b> 177A-177B, 369A-369B, 459A-459B</p> <p><b>Geometry</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> 20-26, PIAT: 69, 82-88, 89-95, 106-112, 113-119, PIAT: 128, CB: 170, CB: 179-180, 258-264, CB: 284, 285-291, CB: 300, CB: 413, CB: 667, CB: 725 <b>TE:</b> 26A-26B, 88A-88B, 95A-95B, 112A-112B, 119A-119B, 264A-264B, 291A-291</p>

**A Correlation of Pearson High School Mathematics Algebra 1, Geometry, Algebra 2  
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<p align="center"><b>Nebraska’s College and Career Ready Standards for Mathematics Grades 9 – 11</b></p>	<p align="center"><b>Pearson High Mathematics Algebra 1, Geometry, Algebra 2 ©2015</b></p>
<p>(Continued) <b>3. Communicates mathematical ideas effectively.</b> Students will communicate mathematical ideas effectively and precisely. Students will critique the reasoning of others as well as provide mathematical justifications. Students will utilize appropriate communication approaches individually and collectively and through multiple methods, including writing, speaking, and listening.</p>	<p><b>Algebra 2</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> 166-173, 194-201, 202-208, 209-214, 248-255, CB: 256-257, CB: 318, 361-366, CB: 594, CB: 621, CB: 694-695, CB: 860 <b>TE:</b> 173A-173B, 201A-201B, 208A-208B, 214A-214B, 255A-255B, 366A-366B</p>
<p><b>4. Makes mathematical connections.</b> Students will connect mathematical knowledge, ideas, and skills beyond the math classroom. This includes the connection of mathematical ideas to other topics within mathematics and to other content areas. Additionally, students will be able to describe the connection of mathematical knowledge and skills to their career interest as well as within authentic/real-world contexts.</p>	<p><b>Algebra 1</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> 88-93, 186-192, 253-259, 387-392, 460-466, 553-558, CCPT: 613, PIAT: 652, 684-689, 698-704, 726-731 <b>TE:</b> 93A-93B, 192A-192B, 259A-259B, 392A-392B, 466A-466B, 704A-704B, 731A-731B</p> <p><b>Geometry</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> 164-169, 218-224, 244-245, 285-291, 332-339, 587-593, CCPT: 613, 623-628, 635-641, 726-732, 733-740, 824-829 <b>TE:</b> 169A-169B, 224A-224B, 245A-245B, 291A-291B, 339A-339B, 593A-593B, 628A-628B, 641A-641B, 732A-732B, 740A-740B, 829A-829B</p> <p><b>Algebra 2</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> 92-98, 134-141, 149-155, 209-214, 331-338, 398-404, 434-441, 478-483, 681-687, 688-693, 809-815, 844-850, 861-867 <b>TE:</b> 98A-98B, 141A-14B, 155A-155B, 214A-214B, 338A-338B, 404A-404B, 441A-441B, 483A-483B, 687A-687B, 693A-693B, 815A-815B, 850A-850B, 867A-867B</p>

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Nebraska's College and Career Ready Standards for Mathematics Grades 9 – 11	Pearson High Mathematics Algebra 1, Geometry, Algebra 2 ©2015
<b>MA 11.1 NUMBER: Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.</b>	
<b>MA.11.1.1 Numeric Relationships:</b> Students will demonstrate, represent, and show relationships among the subsets of real numbers and the complex number system.	
MA 11.1.1.a Compare and contrast subsets of the complex number system, including imaginary, rational, irrational, integers, whole, and natural numbers.	<p><b>Algebra 1</b> SE/TE: 18-21 TE: 22A-22B</p> <p><b>Algebra 2</b> SE/TE: 11-17, 248-255 TE: 17A-17B, 255A-255B</p>
MA 11.1.1.b Recognize that closure properties apply to the subsets of the complex number system, under the standard operations.	<p><b>Algebra 2</b> SE/TE: 248-255 TE: 255A-255B</p>
MA 11.1.1.c Use drawings, words, and symbols to explain the effects of operations such as multiplication and division on the magnitude of quantities in the real number system, including powers and roots (e.g., if you take the square root of a number, will the result always be smaller than the original number?).	<p><b>Algebra 1</b> SE/TE: 16-17, 38-44, CB: 45, CB: 424, 425-431, CB: 432, 433-438, 439-445, 619-625, 627-631, 804, 807 TE: 22A-22B, 44A-44B, 431A-431B, 438A-438B, 445A-445B, 625A-625B, T804, T807</p> <p><b>Geometry</b> For related content, please see: SE/TE: 889, 892 TE: 889T, 892T</p> <p><b>Algebra 2</b> For related content, please see: SE/TE: 11-17, CB: 225, CB: 265, 361-366, 381-388 TE: 17A-17B, 366A-366B, 388A-388B</p>

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Nebraska's College and Career Ready Standards for Mathematics Grades 9 – 11	Pearson High Mathematics Algebra 1, Geometry, Algebra 2 ©2015
<b>MA 11.1.2 Operations:</b> Students will compute with real and complex numbers.	
MA 11.1.2.a Compute with subsets of the complex number system, including imaginary, rational, irrational, integers, whole, and natural numbers.	<p><b>Algebra 1</b>  <b>SE/TE:</b> 16-17, 30-36, 38-44, CB: 45, CB: 424, 425-431, CB: 432, 433-438, 439-445, 619-625, 626-631, 804, 807  <b>TE:</b> 22A-22B, 36A-36B, 44A-44B, 431A-431B, 438A-438B, 445A-445B, 625A-625B, T804, T807</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 33-40, 248-255, CB: 225, CB: 265, CB: 360, 367-373, 374-380, 462-468  <b>TE:</b> 40A-40B, 255A-255B, 373A-373B, 380A-380B, 468A-468B</p>
MA 11.1.2.b Simplify expressions with rational exponents.	<p><b>Algebra 1</b>  <b>SE/TE:</b> 428-431, CB:447, 447-452  <b>TE:</b> 431A-431B, 452A-452B</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 381-388  <b>TE:</b> 388A-388B</p>
MA 11.1.2.c Select, apply, and explain the method of computation when problem solving using real numbers (e.g., models, mental computation, paper-pencil, or technology).	<p><b>Algebra 1</b>  This standard is addressed throughout the text. See, for example:  <b>SE/TE:</b> 16-17, 30-36, 38-44, CB: 45, CB: 424, 425-431, CB: 432, 433-438, 439-445, 619-625, 626-631, 804, 807  <b>TE:</b> 22A-22B, 36A-36B, 44A-44B, 431A-431B, 438A-438B, 445A-445B, 625A-625B, T804, T807</p> <p><b>Geometry</b>  For related content, please see:  <b>SE/TE:</b> 50-56, CB: 57, 59-67, 159-163, 173-178, 197-204, CCPT: 283, 285-291, 293-299, Algebra Review: 399, 616-622, 643-648, 717-724, CB: 725  <b>TE:</b> 56A-56B, 67A-67B, 163A-163B, 178A-178B, 204A-204B, 291A-291B, 299A-299B, 622A-622B, 648A-648B, 724A-724B</p>

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<b>Nebraska’s College and Career Ready Standards for Mathematics Grades 9 – 11</b>	<b>Pearson High Mathematics Algebra 1, Geometry, Algebra 2 ©2015</b>
(Continued) MA 11.1.2.c Select, apply, and explain the method of computation when problem solving using real numbers (e.g., models, mental computation, paper-pencil, or technology).	<b>Algebra 2</b> <b>SE/TE:</b> 88-93, 166-173, 186-192, 194-201, 202-208, 209-214, 248-255, 361-366, 387-392, 460-466, 553-558, 684-689, 698-704, 726-731 <b>TE:</b> 93A-93B, 173A-173B, 192A-192B, 201A-201B, 208A-208B, 214A-214B, 255A-255B, 366A-366B, 392A-392B, 466A-466B, 558A-558B, 689A-689B, 704A-704B, 731A-731B
MA 11.1.2.d Use estimation methods to check the reasonableness of real number computations and decide if the problem calls for an approximation (including appropriate rounding) or an exact number.	<b>Algebra 1</b> For related content, please see: <b>SE/TE:</b> 17, 20, 120, 191, 800 <b>TE:</b> T800  <b>Geometry</b> For related content, please see: <b>SE/TE:</b> 887 <b>TE:</b> T887  <b>Algebra 2</b> For related content, please see: <b>SE/TE:</b> 374, 436, 438, 453, 466, 479, 481-482
<b>MA 11.2 ALGEBRA: Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.</b>	
<b>MA 11.2.1 Algebraic Relationships:</b> Students will demonstrate, represent, and show relationships with functions.	
MA 11.2.1.a Define a function and use function notation.	<b>Algebra 1</b> <b>SE/TE:</b> 240-245, 246-251, 268-273 <b>TE:</b> 245A-245B, 251A-251B, 273A-273B  <b>Algebra 2</b> <b>SE/TE:</b> 60-67 <b>TE:</b> 67A-67B



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<p>MA 11.2.1.b Analyze a relation to determine if it is a function given graphs, tables, or algebraic notation.</p>	<p><b>Algebra 1</b> <b>SE/TE:</b> 268-273 <b>TE:</b> 273A-273B</p> <p><b>Algebra 2</b> <b>SE/TE:</b> 60-67 <b>TE:</b> 67A-67B</p>
<p>MA 11.2.1.c Classify a function given graphs, tables, or algebraic notation, as linear, quadratic, or neither.</p>	<p><b>Algebra 1</b> <b>SE/TE:</b> 240-245, 246-251, 252-259, 268-273, 540-552 <b>TE:</b> 245A-245B, 251A-251B, 259A-259B, 273A-273B, 552A-552B</p> <p><b>Algebra 2</b> <b>SE/TE:</b> 74-80, CB: 90-91, 107-113, 194-201, 202-208, 280-287, 434-441, 454-458, 515-523 <b>TE:</b> 80A-80B, 113A-113B, 201A-201B, 287A-287B, 441A-441B, 458A-458B, 523A-523B</p>
<p>MA 11.2.1.d Identify domain and range of functions represented in either algebraic or graphical form.</p>	<p><b>Algebra 1</b> <b>SE/TE:</b> 240-245, 246-251, 268-273, 546-552 <b>TE:</b> 245A-245B, 251A-251B, 273A-273B, 552A-552B</p> <p><b>Algebra 2</b> <b>SE/TE:</b> 60-67, 107-113, 194-201, 202-208, 280-287, 434-441, 454-458, 515-523 <b>TE:</b> 67A-67B, 113A-113B, 201A-201B, 208A-208B, 287A-287B, 441A-441B, 458A-458B, 523A-523B</p>
<p>MA 11.2.1.e Analyze and graph linear functions and inequalities (point-slope form, slope-intercept form, standard form, intercepts, rate of change, parallel and perpendicular lines, vertical and horizontal lines, and inequalities).</p>	<p><b>Algebra 1</b> <b>SE/TE:</b> 240-245, 253-259, 294-300, CB: 307, 308-314, 315-320, 322-328, 330-335, 394-399 <b>TE:</b> 245A-245B, 259A-259B, 300A-300B, 314A-314B, 320A-320B, 328A-328B, 335A-335B, 399A-399B</p> <p><b>Geometry</b> <b>SE/TE:</b> 189-196, 197-204 <b>TE:</b> 196A-196B, 204A-204B</p>

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<p>(Continued) MA 11.2.1.e Analyze and graph linear functions and inequalities (point-slope form, slope-intercept form, standard form, intercepts, rate of change, parallel and perpendicular lines, vertical and horizontal lines, and inequalities).</p>	<p><b>Algebra 2</b> <b>SE/TE:</b> 74-80, 81-88, 114-120 <b>TE:</b> 80A-80B, 88A-88B, 120A-120B</p>
<p>MA 11.2.1.f Analyze and graph absolute value functions (finding the vertex, symmetry, transformations, determine intercepts, and minimums or maximums using the piecewise definition).</p>	<p><b>Algebra 1</b> <b>SE/TE:</b> 346-350, CB: 351 <b>TE:</b> 350A-350B</p> <p><b>Algebra 2</b> <b>SE/TE:</b> 107-113 <b>TE:</b> 113A-113B</p>
<p>MA 11.2.1.g Analyze and graph quadratic functions (standard form, vertex form, finding zeros, symmetry, transformations, determine intercepts, and minimums or maximums).</p>	<p><b>Algebra 1</b> <b>SE/TE:</b> 546-552, 553-558, 561-566, CB: 567 <b>TE:</b> 552A-552B, 558A-558B, 566A-566B</p> <p><b>Algebra 2</b> <b>SE/TE:</b> 194-201, 202-208 <b>TE:</b> 201A-201B, 208A-208B</p>
<p>MA 11.2.1.h Represent, interpret, and analyze inverses of functions algebraically and graphically.</p>	<p><b>Algebra 1</b> <b>SE/TE:</b> CB: 329</p> <p><b>Algebra 2</b> <b>SE/TE:</b> 405-412, 451-458, 911-918 <b>TE:</b> 412A-412B, 458A-458B, 918A-918B</p>

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<b>MA 11.2.2 Algebraic Processes:</b> Students will apply the operational properties when evaluating rational expressions, and solving linear and quadratic equations, and inequalities.	
MA 11.2.2.a Convert equivalent rates (e.g., miles per hour to feet per second).	<p><b>Algebra 1</b> SE/TE: 116-121 TE: 121A-121B</p> <p><b>Geometry</b> For related content, please see: SE/TE: 62, 886 TE: T886</p>
MA 11.2.2.b Identify and explain the properties used in solving equations and inequalities.	<p><b>Algebra 1</b> SE/TE: 23-28, 81-87, 88-93, 94-100, 102-108, 171-177 TE: 28A-28B, 87A-87B, 93A-93B, 100A-100B, 108A-108B, 177A-177B</p> <p><b>Geometry</b> For related content, please see: SE/TE: Algebra Review: 323, Algebra Review: 439, 894 TE: T894</p> <p><b>Algebra 2</b> SE/TE: 11-17, 26-32, 33-40 TE: 17A-17B, 32A-32B, 40A-40B</p>
MA 11.2.2.c Simplify algebraic expressions involving integer and fractional exponents.	<p><b>Algebra 1</b> SE/TE: 10-15, 48-52, 418-423, 428-431 TE: 15A-15B, 52A-52B, 423A-423B, 431A-431B</p> <p><b>Geometry</b> For related content, please see: SE/TE: 890 TE: T890</p> <p><b>Algebra 2</b> SE/TE: 18-24, 381-388, 527-533 TE: 24A-24B, 388A-388B, 533A-533B</p>

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<p>MA 11.2.2.d Perform operations on rational expressions (add, subtract, multiply, divide, and simplify).</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 664-669, 670-676, 684-689  <b>TE:</b> 669A-669B, 676A-676B, 689A-689B</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 527-533, 534-541  <b>TE:</b> 533A-533B, 541A-541B</p>
<p>MA 11.2.2.e Evaluate expressions at specified values of their variables (polynomial, rational, radical, and absolute value).</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 12-15  <b>TE:</b> 15A-15B</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 19-24, 364, 371 (#52), 386 (#35-38), 530  <b>TE:</b> 24A-24B</p>
<p>MA 11.2.2.f Solve an equation involving several variables for one variable in terms of the others.</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 109-114  <b>TE:</b> 114A-114B</p> <p><b>Geometry</b>  <b>SE/TE:</b> Algebra Review: 698</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 29, 31  <b>TE:</b> 32A-32B</p>
<p>MA 11.2.2.g Solve linear and absolute value equations and inequalities.</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> CB: 80, 81-87, 88-93, 94-100, CB: 101, 102-108, 164-170, 178-183, CB:185, 186-192, 200-206, 207-213, 308-314, 315-320, 322-328, 394-399  <b>TE:</b> 87A-87B, 93A-93B, 100A-100B, 108A-108B, 170A-170B, 183A-183B, 192A-192B, 206A-206B, 213A-213B, 314A-314B, 320A-320B, 399A-399B</p> <p><b>Geometry</b>  <b>SE/TE:</b> Algebra Review: 323, 894  <b>TE:</b> T894</p>

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(Continued) MA 11.2.2.g Solve linear and absolute value equations and inequalities.	<b>Algebra 2</b> <b>SE/TE:</b> 41-48, 68-73, 74-80, 81-88, 114-120 <b>TE:</b> 48A-48B, 73A-73B, 80A-80B, 88A-88B, 120A-120B
MA 11.2.2.h Analyze and solve systems of two linear equations and inequalities in two variables algebraically and graphically.	<b>Algebra 1</b> <b>SE/TE:</b> 364-369, CB: 370, CB: 371, 372-377, 378-384, CB: 385-386, 387-392, 400-405, CB: 406 <b>TE:</b> 369A-369B, 377A-377B, 384A-384B, 392A-392B, 405A-405B  <b>Geometry</b> <b>SE/TE:</b> Algebra Review: 257, Algebra Review: 362  <b>Algebra 2</b> <b>SE/TE:</b> 134-141, 142-148, 149-155 <b>TE:</b> 141A-141B, 148A-148B, 155A-155B
MA 11.2.2.i Perform operations (addition subtraction, multiplication, and division) on polynomials.	<b>Algebra 1</b> <b>SE/TE:</b> 486-491, 492-496, CB: 497, 498-503, 504-509, CB: 677, 678-683 <b>TE:</b> 491A-491B, 496A-496B, 503A-503B, 509A-509B, 683A-683B  <b>Algebra 2</b> <b>SE/TE:</b> 303-310, 979 <b>TE:</b> 310A-310B
MA 11.2.2.j Factor polynomials to include factoring out monomial terms and factoring quadratic expressions.	<b>Algebra 1</b> <b>SE/TE:</b> 492-496, CB: 511, 512-517, 518-522, 523-528, 529-533 <b>TE:</b> 496A-496B, 517A-517B, 522A-522B, 528A-528B, 533A-533B  <b>Algebra 2</b> <b>SE/TE:</b> 216-223, 288, 293, 296-302 <b>TE:</b> 223A-223B, 302A-302B

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<p>MA 11.2.2 k. Recognize polynomial multiplication patterns and their related factoring patterns (e.g., <math>(a + b)^2 = a^2 + 2ab + b^2</math>, <math>a^2 - b^2 = (a + b)(a - b)</math>).</p>	<p><b>Algebra 1</b> SE/TE: 504-509, 523-528 TE: 509A-509B, 528A-528B</p> <p><b>Algebra 2</b> SE/TE: 979</p>
<p>MA 11.2.2.l Make the connection between the factors of a polynomial and the zeros of a polynomial.</p>	<p><b>Algebra 1</b> SE/TE: 568-572 TE: 572A-572B</p> <p><b>Algebra 2</b> SE/TE: 288-295 TE: 295A-295B</p>
<p>MA 11.2.2.m Combine functions by composition and perform operations (addition, subtraction, multiplication, division) on functions.</p>	<p><b>Algebra 2</b> SE/TE: 398-404 TE: 404A-404B</p>
<p>MA 11.2.2.n Solve quadratic equations involving real coefficients and real or imaginary roots.</p>	<p><b>Algebra 1</b> SE/TE: 561-566, CB: 567, 568-572, 576-581, 582-588 TE: 566A-566B, 572A-572B, 581A-581B, 588A-588B</p> <p><b>Geometry</b> SE/TE: Algebra Review: 439</p> <p><b>Algebra 2</b> SE/TE: 226-231, 233-239, 240-247, 248-255 TE: 231A-231B, 239A-239B, 247A-247B, 255A-255B</p>

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<p><b>MA 11.2.3 Applications:</b> Students will solve real-world problems involving linear equations and inequalities, systems of linear equations, quadratic, exponential, square root, and absolute value functions.</p>	
<p>MA 11.2.3.a Analyze, model, and solve real-world problems using various representations (graphs, tables, linear equations and inequalities, systems of linear equations, quadratic, exponential, square root, and absolute value functions).</p>	<p><b>Algebra 1</b> This standard is addressed throughout the text. See, for example: <b>SE/TE:</b> CB:80, 81-87, 88-93, 94-100, CB: 101, 102-108, 164-170, 178-183, CB:185, 186-192, 200-206, 207-213, 308-314, 315-320, 322-328, 364-369, CB: 370, CB: 371, 372-377, 378-384, CB: 385-386, 387-392, 394-399, 400-405, CB: 406, 453-459, 460-466, 561-566, CB: 567, 568-572, 576-581, 582-588, 639-644</p> <p><b>TE:</b> 87A-87B, 93A-93B, 100A-100B, 108A-108B, 170A-170B, 183A-183B, 192A-192B, 206A-206B, 213A-213B, 314A-314B, 320A-320B, 369A-369B, 377A-377B, 384A-384B, 392A-392B, 399A-399B, 405A-405B, 453A-453B, 466A-466B, 566A-566B, 572A-572B, 581A-581B, 588A-588B, 644A-644B</p> <p><b>Geometry</b> For related content, please see: <b>SE/TE:</b> 50-56, CB:68, 189-196, 202-203 <b>TE:</b> 56A-56B, 196A-196B,</p> <p><b>Algebra 2</b> <b>SE/TE:</b> 92-98, 134-141, 142-148, 149-155, 157-162, 209-214, 226-231, 233-239, 240-247, 392, 395-396, 419, 434-441 <b>TE:</b> 98A-98B, 141A-141B, 148A-148B, 155A-155B, 162A-162B, 214A-214B, 231A-231B, 239A-239B, 247A-247B, 396A-396B, 441A-441B</p>

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<p><b>MA 11.3 GEOMETRY: Students will communicate geometric concepts and measurement concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.</b></p>	
<p><b>MA 11.3.1 Characteristics:</b> Students will identify and describe geometric characteristics and create two- and three-dimensional shapes.</p>	
<p>MA 11.3.1.a Know and use precise definitions of ray, line segment, angle, perpendicular lines, parallel lines, and congruence based on the undefined terms of geometry: point, line and plane.</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 330-335  <b>TE:</b> 335A-335B</p> <p><b>Geometry</b>  <b>SE/TE:</b> 11-19, 27-33, 114, 140-146, 164-169  <b>TE:</b> 19A-19B, 33A-33B, 146A-146B, 169A-169B</p>
<p>MA 11.3.1.b Prove geometric theorems about angles, triangles, congruent triangles, similar triangles, parallel lines with transversals, and quadrilaterals using deductive reasoning.</p>	<p><b>Geometry</b>  <b>SE/TE:</b> 155(#25), 168 (#10), 176 (#26), 177 (#33), 203 (#39, 40), 255 (#22, 23), 298 (#32, 33, 34, 35), 331 (#45), 365 (#32), 366 (#43), 373 (#20, 21), 381 (#41, 45), 387 (#23, 24), 388 (#31), 396 (#46, 53, 54, 56), 458 (#36), 466 (#42, 43), 476 (#37), 477 (#46, 47), 497 (#49), 498 (#52, 53, 54)</p>
<p>MA 11.3.1.c Apply geometric properties to solve problems involving similar triangles, congruent triangles, quadrilaterals, and other polygons.</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 130-136  <b>TE:</b> 136A-36B</p> <p><b>Geometry</b>  <b>SE/TE:</b> 218-224, 226-233, 234-241, CB: 242, 244-248, 250-256, 258-264, 359-366, 367-374, 375-382, 383-388, 389-397, 400-403, 414-418, 450-458, 460-467  <b>TE:</b> 224A-224B 233A-233B, 241A-241B, 248A-248B, 256A-256B, 264A-264B, 366A-366B, 374A-374B, 382A-382B, 388A-388B, 397A-397B, 403A-403B, 418A-418B, 458A-458B, 467A-467B</p>



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<p>MA 11.3.1.d Identify and apply right triangle relationships including sine, cosine, tangent, special right triangles, and the converse of the Pythagorean Theorem.</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 614-618, 645-651  <b>TE:</b> 618A-618B, 651A-651B</p> <p><b>Geometry</b>  <b>SE/TE:</b> CB: 490, 491-498, 499-505, CB: 506, 507-513, CB: 514  <b>TE:</b> 498A-498B, 505A-505B, 513A-513B</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 835, 919-926  <b>TE:</b> 926A-926B</p>
<p>MA 11.3.1.e Create geometric models to visualize, describe, and solve problems using similar triangles, right triangles, and trigonometry.</p>	<p><b>Algebra 1</b>  For related content, please see:  <b>SE/TE:</b> 130-136, 645-651  <b>TE:</b> 136A-136B, 651A-651B</p> <p><b>Geometry</b>  <b>SE/TE:</b> 457(#32), 465 (#23), 466 (#5), CB: 490, 505 (#32), CB: 506, 512 (#39), CB: 574</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 919-926  <b>TE:</b> 926A-926B</p>
<p>MA 11.3.1.f Know and use precise definitions and terminology of circles, including central angle, inscribed angle, arc, intercepted arc, chord, secant, and tangent.</p>	<p><b>Geometry</b>  <b>SE/TE:</b> 762-769, CB: 770, 771-779, 780-787, CB: 789, 790-797  <b>TE:</b> 769A-769B, 779A-779B, 787A-787B, 797A-797B</p>
<p>MA 11.3.1.g Apply the properties of central angles, inscribed angles, angles formed by intersecting chords, and angles formed by secants and/or tangents to find the measures of angles related to the circle.</p>	<p><b>Geometry</b>  <b>SE/TE:</b> 762-769, 780-787, 790-797  <b>TE:</b> 769A-769B, 787A-787B, 797A-797B</p>

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<p>MA 11.3.1.h Sketch, draw, and construct appropriate representations of geometric objects using a variety of tools and methods which may include ruler/straight edge, protractor, compass, reflective devices, paper folding, or dynamic geometric software.</p>	<p><b>Geometry</b>  <b>SE/TE:</b> 4-10, CB: 42, 43-48, CB: 49, CB: 147, CB: 179-180, 182-188, CB: 242, 247 (#17), CB: 249, 255 (#29), 263 (#19, 20, 21, 22), 271 (#28, 34), 297 (#24, 25), CB: 300, 306 (#20, 21), 313 (#22, 23), 314 (#29, 30, 35), CB: 352, 374 (#27), CB: 413, CB: 490, CB: 544, CB: 553, CB: 568-569, CB: 614-615, 640 (#41), CB: 667, 692 (#21, 22, 23), 693 (#28, 29, 30), 694 (#42-50), CB: 696-697, CB: 725, 768 (#28), CB: 770, 777 (#26), 778 (#28), 786 (#30), 787 (#39)  <b>TE:</b> 10A-10B, 48A-48B, 188A-188B</p>
<p><b>MA 11.3.2 Coordinate Geometry:</b> Students will determine location, orientation, and relationships on the coordinate plane.</p>	
<p>MA 11.3.2.a Derive and apply the midpoint formula.</p>	<p><b>Algebra 1</b>  For related content, please see:  <b>SE/TE:</b> 114 (#50)</p> <p><b>Geometry</b>  <b>SE/TE:</b> 50-56, 286-291, 400-405  <b>TE:</b> 56A-56B, 291A-291B, 405A-405B</p>
<p>MA 11.3.2.b Use coordinate geometry to analyze linear relationships to determine if lines are parallel or perpendicular.</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 330-335  <b>TE:</b> 335A-335B</p> <p><b>Geometry</b>  <b>SE/TE:</b> 197-204  <b>TE:</b> 204A-204B</p>

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<p>MA 11.3.2.c Given a line, write the equation of a line that is parallel or perpendicular to it.</p>	<p><b>Algebra 1</b> SE/TE: 330-335 TE: 335A-335B</p> <p><b>Geometry</b> SE/TE: 189-196 TE: 196A-196B</p> <p><b>Algebra 2</b> SE/TE: 81-88 TE: 88A-88B</p>
<p>MA 11.3.2.d Derive and apply the distance formula.</p>	<p><b>Geometry</b> SE/TE: 50-56, 400-405, 497 (#35) TE: 56A-56B, 405A-405B</p>
<p>MA 11.3.2.e Use coordinate geometry to prove triangles are right, acute, obtuse, isosceles, equilateral, or scalene.</p>	<p><b>Geometry</b> SE/TE: 400-405 TE: 405A-405B</p>
<p>MA 11.3.2.f Use coordinate geometry to prove quadrilaterals are trapezoids, isosceles trapezoids, parallelograms, rectangles, rhombi, kites, or squares.</p>	<p><b>Geometry</b> SE/TE: 400-405, 414-418 TE: 405A-405B, 418A-418B</p> <p><b>Algebra 2</b> SE/TE: 801-808 TE: 808A-808B</p>
<p>MA 11.3.2.g Perform and describe positions and orientation of shapes under a single translation using algebraic notation on a coordinate plane.</p>	<p><b>Geometry</b> SE/TE: CB: 544, 545-552 TE: 552A-552B</p> <p><b>Algebra 2</b> For related content, please see: SE/TE: 99-106, 108, 112, 196-201, 455, 456, 631, 653-660, 801-808, 875-882 TE: 106A-106B, 201A-201B, 660A-660B, 808A-808B, 882A-882B</p>

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<p>MA 11.3.2.h Perform and describe positions and orientation of shapes under a rotation about the origin in multiples of 90 degrees using algebraic notation on a coordinate plane.</p>	<p><b>Geometry</b> SE/TE: 561-567 TE: 567A-567B</p> <p><b>Algebra 2</b> For related content, please see: SE/TE: 801-808 TE: 808A-808B</p>
<p>MA 11.3.2.i Perform and describe positions and orientation of shapes under a reflection across a line using algebraic notation on a coordinate plane.</p>	<p><b>Algebra 1</b> For related content, please see: SE/TE: 414 (#28)</p> <p><b>Geometry</b> SE/TE: CB: 553, 554-560 TE: 560A-560B</p> <p><b>Algebra 2</b> For related content, please see: SE/TE: 99-106, 195, 200, 801-808 TE: 106A-106B, 808A-808B</p>
<p>MA 11.3.2.j Perform and describe positions and orientation of shapes under a single dilation on a coordinate plane.</p>	<p><b>Geometry</b> SE/TE: CB: 586, 587-593 TE: 593A-593B</p> <p><b>Algebra 2</b> SE/TE: 802-803, 807</p>
<p>MA 11.3.2.k Derive the equation of a circle given the radius and the center.</p>	<p><b>Geometry</b> SE/TE: 798-803 TE: 803A-803B</p> <p><b>Algebra 2</b> SE/TE: 630-636 TE: 636A-636B</p>

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<b>MA 11.3.3 Measurement:</b> Students will perform and compare measurements and apply formulas.	
<p>MA 11.3.3.a Convert between various units of length, area, and volume (e.g., such as square feet to square yards).</p> <p>(Continued) MA 11.3.3.a Convert between various units of length, area, and volume (e.g., such as square feet to square yards).</p>	<p><b>Algebra 1</b> For related content, please see: <b>SE/TE:</b> 117-121 <b>TE:</b> 121A-121B</p> <p><b>Geometry</b> For related content, please see: <b>SE/TE:</b> 616-622, 623-628, 886 <b>TE:</b> 622A-622B, 628A-628B</p>
MA 11.3.3.b Convert between metric and standard units of measurement.	<p><b>Algebra 1</b> <b>SE/TE:</b> 117-121 <b>TE:</b> 121A-121B</p>
MA 11.3.3.c Apply the effect of a scale factor to determine the length, area, and volume of similar two- and three-dimensional shapes and solids.	<p><b>Algebra 1</b> For related content, please see: <b>SE/TE:</b> 132-136 <b>TE:</b> 136A-136B</p> <p><b>Geometry</b> <b>SE/TE:</b> 635-641, CB: 741, 742-749 <b>TE:</b> 641A-641B, 749A-749B</p>
MA 11.3.3.d Find arc length and area of sectors of a circle.	<p><b>Geometry</b> <b>SE/TE:</b> 653-657, 661-666 <b>TE:</b> 657A-657B, 666A-666B</p>
MA 11.3.3.e Determine surface area and volume of spheres, cones, pyramids, and prisms using formulas and appropriate units.	<p><b>Algebra 1</b> For related content, please see: <b>SE/TE:</b> 15 (#60), 114 (#49), 147, 149 (#23), 265 (#20), 496 (#43, 66)</p> <p><b>Geometry</b> <b>SE/TE:</b> 699-707, 708-715, 717-724, CB: 725, 726-732, 733-740 <b>TE:</b> 707A-707B, 715A-715B, 724A-724B, 732A-732B, 740A-740B</p>

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<b>MA 11.4 DATA: Students will communicate data analysis/probability concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.</b>	
<b>MA 11.4.1 Representations:</b> Students will create displays that represent data.	
No additional indicator(s) at this level. Mastery is expected at previous grade levels.	
<b>MA 11.4.2 Analysis &amp; Applications:</b> Students will analyze data to address the situation.	
MA 11.4.2.a Identify and compute measures of central tendency (mean, median, mode) when provided data both with and without technology.	<b>Algebra 1</b> <b>SE/TE:</b> CCPT: 725, 738-744, PIAT: 785 <b>TE:</b> 744A-744B  <b>Algebra 2</b> <b>SE/TE:</b> 711-718 <b>TE:</b> 718A-718B
MA 11.4.2.b Explain how transformations of data, including outliers, affect measures of central tendency.	<b>Algebra 1</b> <b>SE/TE:</b> 738-744 <b>TE:</b> 744A-744B  <b>Algebra 2</b> <b>SE/TE:</b> 711-718 <b>TE:</b> 718A-718B
MA 11.4.2.c Compare data sets and formulate conclusions.	<b>Algebra 1</b> <b>SE/TE:</b> CCPT: 725, 746-751, PIAT: 785 <b>TE:</b> 751  <b>Algebra 2</b> <b>SE/TE:</b> 711-718, 719-724 <b>TE:</b> 718A-718B, 724A-724B
MA 11.4.2.d Support conclusions with valid arguments.	<b>Algebra 1</b> <b>SE/TE:</b> CCPT: 725, 746-751, PIAT: 785 <b>TE:</b> 751  <b>Algebra 2</b> <b>SE/TE:</b> 711-718, 719-724, 739-745, CB: 748-749 <b>TE:</b> 718A-718B, 724A-724B, 745A-745B

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<p>MA 11.4.2.e Develop linear equations for linear models to predict unobserved outcomes using the regression line and correlation coefficient with technology.</p>	<p><b>Algebra 1</b> SE/TE: 336-343, CB: 344-345 TE: 343A-343B</p> <p><b>Algebra 2</b> SE/TE: 92-98 TE: 98A-98B</p>
<p>MA 11.4.2.f Describe the shape, identify any outliers, and determine the spread of a data set.</p>	<p><b>Algebra 1</b> SE/TE: 740-744 TE: 744A-744B</p> <p><b>Algebra 2</b> SE/TE: 711-718, 719-724, 739-745 TE: 718A-718B, 724A-724B, 745A-745B</p>
<p>MA 11.4.2.g Explain the impact of sampling methods, bias, and the phrasing of questions asked during data collection, and the conclusions that can rightfully be made.</p>	<p><b>Algebra 1</b> SE/TE: CB: 752, 753-759 TE: 759A-759B</p> <p><b>Algebra 2</b> SE/TE: 725-730 TE: 730A-730B</p>
<p>MA 11.4.2.h Explain the differences between a randomized experiment and observational studies.</p>	<p><b>Algebra 1</b> SE/TE: 753-759 TE: 759A-759B</p> <p><b>Algebra 2</b> SE/TE: 725-730 TE: 730A-730B</p>
<p>MA 11.4.2.i Using scatter plots, analyze patterns and describe relationships in paired data.</p>	<p><b>Algebra 1</b> SE/TE: 336-343, CB: 344-345 TE: 343A-343B</p> <p><b>Algebra 2</b> SE/TE: 92-98 TE: 98A-98B</p>

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<p>MA 11.4.2.j Recognize when arguments based on data confuse correlation with causation.</p>	<p><b>Algebra 1</b> SE/TE: 336-343 TE: 343A-343B</p> <p><b>Algebra 2</b> For related content, please see: SE/TE: 92-98 TE: 98A-98B</p>
<p>MA 11.4.2.k Interpret data represented by the normal distribution, formulate conclusions, and recognize that some data sets are not normally distributed.</p>	<p><b>Algebra 1</b> SE/TE: CB: 783-784</p> <p><b>Algebra 2</b> SE/TE: 739-745, CB: 746-747, CB 748-749 TE: 745A-745B</p>
<p><b>MA 11.4.3 Probability:</b> Students will interpret and apply concepts of probability.</p>	
<p>MA 11.4.3.a Construct sample spaces and probability distributions.</p>	<p><b>Algebra 1</b> SE/TE: 769-774 TE: 774A-774B</p> <p><b>Geometry</b> SE/TE: 824-829, 830-835, 850-855, 856-861 TE: 829A-829B, 835A-835B, 855A-855B, 861A-861B</p> <p><b>Algebra 2</b> SE/TE: 681-687 TE: 687A-687B</p>
<p>MA 11.4.3.b Use appropriate counting techniques to determine the probability of an event.</p>	<p><b>Algebra 1</b> SE/TE: 762-768 TE: 768A-768B</p> <p><b>Geometry</b> SE/TE: 836-842 TE: 842A-842B</p> <p><b>Algebra 2</b> SE/TE: 674-680 TE: 680A-680B</p>



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<p>MA 11.4.3.c Determine if events are mutually exclusive and calculate their probabilities in either case.</p>	<p><b>Algebra 1</b>  <b>SE/TE:</b> 776-782  <b>TE:</b> 782A-782B</p> <p><b>Geometry</b>  <b>SE/TE:</b> 845-849  <b>TE:</b> 849A-849B</p> <p><b>Algebra 2</b>  <b>SE/TE:</b> 688-693  <b>TE:</b> 693A-693B</p>