

A Correlation of

enVision® Mathematics

Integrated Mathematics

©2019



To the
**Nebraska College and Career Ready
Standards for Mathematics (2015)
High School**

**A Correlation of enVision Integrated Mathematics, ©2019
to the Nebraska's College and Career Ready Standards for Mathematics**

Introduction

enVision® Integrated Mathematics ©2019 is part of the nationally recognized Grades K-12 series, created for print, digital, and blended instruction. Problem-Based Learning connects with Visual Learning to deep conceptual understanding. Interactive multimedia experiences engage learners in student choice and solving rich problems. Extensive customization and differentiation options empower every teacher and student.

UNDERSTANDING

A simple lesson design provides a clear, intentional pathway. Starting on a firm foundation of conceptual understanding, students can connect and apply math ideas in amazing ways. High-interest math projects invite all students to be active participants.

A simple lesson design provides a clear, intentional pathway.

STEP 1 Problem-Based Learning
STEP 2 Visual Learning
STEP 3 Assess and Differentiate

ASSESSMENT

The enVision Assessment Suite offers options to move students toward mastery of state standards while driving instructional differentiation.

DIAGNOSTIC Assessment

Reading Test, Diagnostic Test (Math Diagnosis and Intervention System), Review What You Know

FORMATIVE Assessment

SCOUT Observational Assessment used during Solve & Share, Do You Understand? And Convince Me! Guide Practice, Quick Check

SUMMATIVE Assessment

Topic Assessments, Topic Performance Assessments, Examview Test Generator, Fluency Assessments, Cumulative/Benchmarks Assessments, Progress Monitoring Assessments

INSTRUCTIONAL SUPPORT

Gain a new perspective on your teaching with embedded strategies, methods, and a wide range of Professional Development opportunities in print and digital formats.

Ideas, Inspiration, and Teaching Methods

Math background for every Topic and Lesson serves as an easy-to-access math methods course.

Make every lesson perfect for you. Access all digital content, assessments, and management tools at [SavvasRealize.com](https://www.savvasrealize.com).

Kids See the Math. Teachers See Results.

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
Mathematical Processes	Mathematical processes are referenced throughout the enVision Integrated Mathematics series. The following citations are sample references.		
<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>SE/TE: 8, 31, 47, 57, 68, 72, 76, 88, 111, 152</p> <p>TE: 24A-24B, 32, 37A, 59, 84, 137B, 147, 158B, 191B, 200</p>	<p>SE/TE: 5, 10, 17, 25, 33, 54, 62, 68, 73-74, 81</p> <p>TE: 18A, 34B, 55A, 75B, 83B, 111, 120, 151B, 164B, 191B</p>	<p>SE/TE: 39, 50, 52, 56, 67-68, 97, 99, 108, 119, 139</p> <p>TE: 27, 36, 40A-40B, 47A-47B, 48, 88, 95, 111, 123A, 135</p>
<p>2. Models and represents mathematical problems. 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>SE/TE: 44, 62, 68, 77, 88, 91, 128, 133, 157, 171-172</p> <p>TE: 30, 51A, 69, 89A, 96A, 103, 164, 165A, 191A, 212</p>	<p>SE/TE: 26, 82, 131, 176, 190, 236, 327, 364, 444, 498</p> <p>TE: 26A-26B, 82A-82B, 131A-131B, 176A-176B, 190A-190B, 236A-236B, 327A-327B, 364A-364B, 444A-444B, 498A-498B</p>	<p>SE/TE: 53, 100, 162, 202, 246, 332, 363, 439, 480, 527</p> <p>TE: 53A-53B, 100A-100B, 162A-162B, 202A-202B, 246A-246B, 332A-332B, 363A-363B, 439A-439B, 480A-480B, 527A-527B</p>

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<p>3. Communicates mathematical ideas effectively. 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>SE/TE: 11, 17, 28, 56, 67, 102, 116, 120, 170, 182</p> <p>TE: 12, 18B, 24A, 53, 57A, 63A, 89B, 177A, 184A, 195</p>	<p>SE/TE: 9, 15-16, 23-24, 31, 38, 52-53, 60, 66, 341, 482</p> <p>TE: 5B, 11A, 47A, 69B, 117A, 145A, 191B, 205A, 374A, 391A</p>	<p>SE/TE: 10-11, 21, 28, 37, 44, 51, 66, 73, 82, 245</p> <p>TE: 5A, 102, 109A, 113, 141, 154, 180, 355, 379A, 456</p>
<p>4. Makes mathematical connections. 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>SE/TE: 4, 50, 82, 136, 176, 218, 284, 318, 362, 430</p> <p>TE: 30A-30B, 69A-69B, 103A-103B, 164A-164B, 212A-212B, 249A-249B, 313A-313B, 356A-356B, 380A-380B, 467A-467B</p>	<p>SE/TE: 4, 46, 102, 144, 182, 228, 296, 356, 412, 476, 534, 568, 614</p> <p>TE: 26A-26B, 82A-82B, 131A-131B, 176A-176B, 190A-190B, 236A-236B, 327A-327B, 364A-364B, 444A-444B, 498A-498B, 542A-542B, 585A-585B, 629A-629B</p>	<p>SE/TE: 4, 60, 122, 168, 226, 296, 354, 392, 454, 510, 556</p> <p>TE: 53A-53B, 100A-100B, 162A-162B, 202A-202B, 246A-246B, 332A-332B, 363A-363B, 439A-439B, 480A-480B, 527A-527B</p>

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
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.			
MA.11.1.1 Numeric Relationships: 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.	SE/TE: 6, 63, 183 TE: 2B, 2G, 219A, 277B	SE/TE: 183-189, 192, 200, 221-222 TE: 183A-183B, 189A-189B, 192, 198A-198B, 204B	SE/TE: 103, 104, 106-107, 169 TE: 101A, 108B, 169B, 387
MA 11.1.1.b Recognize that closure properties apply to the subsets of the complex number system, under the standard operations.	SE/TE: 179-180, 183 TE: 277B	SE/TE: 183-189 TE: 183A-183B, 189A-189B	SE/TE: 94, 98, 103-108, 177, 180-184 TE: 99A-99B, 108A-108B, 184A-184B
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?).	SE/TE: 177-183 TE: 177A-177B, 183A-183B, 277B	SE/TE: 6-10, 11, 15-17, 19 TE: 10A-10B, 17B	SE/TE: 177, 180-184 TE: 184A-184B
MA 11.1.2 Operations: 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.	SE/TE: 179-180, 183 TE: 2B, 2G, 277B	SE/TE: 5-10, 11, 15-17, 19 TE: 5A-10B, 17B	SE/TE: 177, 180-184 TE: 184A-184B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.1.2.b Simplify expressions with rational exponents.	SE/TE: 177-183 TE: 177A-177B, 183A-183B	SE/TE: 11-17 TE: 11A-17B	SE/TE: 169-176, 177-184 TE: 169A-169B, 176A-176B, 177A-177B, 184A-184B
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).	SE/TE: 180 TE: 277B	SE/TE: 5-10, 11, 15-17, 19 TE: 5A-5B, 10A-10B, 17B	SE/TE: 177, 180-184 TE: 184A-184B
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.	SE/TE: 238-240, 377, 379 TE: 11A, 23B, 47C, 79C, 212B, 236, 241B, 379A	SE/TE: 20, 197, 219, 286, 324, 395, 443, 467, 576, 626 TE: 25A-25B, 33A-33B, 130B, 163A, 382B, 460B, 467B, 541B, 562B	SE/TE: 46, 153, 184, 210, 220, 237, 259-260, 275, 303, 322 TE: 153B, 161B, 223A-223B, 242A-242B, 315B
MA 11.2 ALGEBRA: Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.			
MA 11.2.1 Algebraic Relationships: Students will demonstrate, represent, and show relationships with functions.			
MA 11.2.1.a Define a function and use function notation.	SE/TE: 83-88, 89-95, 96-102, 184-190, 206-211 TE: 83A-88B, 95A-95B, 102A-102B, 190A-190B, 211A-211B	SE/TE: 18-25, 27-33, 34-40, 103-109, 110-116, 117-123, 124-130, 229-235, 237-242, 243-248 TE: 25A-25B, 33A-33B, 40A-40B, 109A-109B, 116A-116B, 123A-123B, 130A-130B, 235A-235B, 242A-242B, 248A-248B	SE/TE: 5-12, 13-22, 23-30, 61-68, 109-116, 123-130, 131-139, 185-192, 227-234, 261-266 TE: 12A-12B, 22A-22B, 30A-30B, 68A-68B, 116A-116B, 130A-130B, 139A-139B, 192A-192B, 234A-234B, 266A-266B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.2.1.b Analyze a relation to determine if it is a function given graphs, tables, or algebraic notation.	SE/TE: 83-88 TE: 83A-83B, 88A-88B	SE/TE: 103-109 TE: 103A-103B, 109A-109B	SE/TE: 5-12 TE: 5A-5B, 12A-12B
MA 11.2.1.c Classify a function given graphs, tables, or algebraic notation, as linear, quadratic, or neither.	SE/TE: 89-95, 96-102, 103, 104-111 TE: 89A-89B, 95A-95B, 96A-96B, 102A-102B, 103A-103B, 104A-104B, 111A-111B	SE/TE: 103-109, 110-116, 117-123, 124-130, 131, 132-138 TE: 109A-109B, 116A-116B, 123A-123B, 130A-130B, 131A-131B, 138A-138B	SE/TE: 5-12, 13-22, 31-39 TE: 5A-5B, 12A-12B, 13A-13B, 22A-22B, 31A-31B, 39A-39B
MA 11.2.1.d Identify domain and range of functions represented in either algebraic or graphical form.	SE/TE: 83-88, 89-95, 184-190 TE: 88A-88B, 95A-95B, 190A-190B	SE/TE: 18-25, 27-33, 34-40, 103-109, 110-116, 117-123, 124-130, 229-235, 237-242, 243-248 TE: 25A-25B, 33A-33B, 40A-40B, 109A-109B, 116A-116B, 123A-123B, 130A-130B, 235A-235B, 242A-242B, 248A-248B	SE/TE: 5-12, 13-22, 23-30, 61-68, 109-116, 123-130, 131-139, 185-192, 227-234, 261-266 TE: 12A-12B, 22A-22B, 30A-30B, 68A-68B, 116A-116B, 130A-130B, 139A-139B, 192A-192B, 234A-234B, 266A-266B
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).	SE/TE: 51-56, 57-62, 63-68, 70-76, 89-95, 96-102, 158-163 TE: 56A-56B, 62A-62B, 68A-68B, 76A-76B, 95A-95B, 102A-102B, 163A-163B	SE/TE: 132-138, 205-211 TE: 132A-132B, 138A-138B, 205A-205B, 211A-211B	SE/TE: 7, 9-12, 14, 40-42, 44-46, 47-52 TE: 12A-12B, 46A-46B, 52A-52B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
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).	Students solve absolute value equations and inequalities. SE/TE: 37-43 TE: 37A-37B, 43A-43B	SE/TE: 229-235, 237, 257-258, 260-261, 266-267, 270-272 TE: 235A-235B, 262B, 268B, 274B	SE/TE: 5-8, 10-12, 13-22, 26, 40-41, 43-46 TE: 5B, 12A-12B, 13B, 22A-22B, 46A-46B
MA 11.2.1.g Analyze and graph quadratic functions (standard form, vertex form, finding zeros, symmetry, transformations, determine intercepts, and minimums or maximums).	Students learn about quadratic functions in enVision Integrated Mathematics II .	SE/TE: 103-109, 110-116, 117-123, 124-130, 131, 132-138, 263-268, 269-274 TE: 109A-109B, 116A-116B, 123A-123B, 130A-130B, 131A-131B, 138A-138B, 268A-268B, 274A-274B	SE/TE: 5-12, 13-22, 41-43, 45-46 TE: 12B, 22A-22B, 46B
MA 11.2.1.h Represent, interpret, and analyze inverses of functions algebraically and graphically.	Students are introduced to inverse functions in enVision Integrated Mathematics II .	SE/TE: 281-286 TE: 281A-281B, 286A-286B	SE/TE: 211-219, 355-362 TE: 211A-211B, 219A-219B, 355A-355B, 362A-362B
MA 11.2.2 Algebraic Processes: 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).	SE/TE: 5, 9, 20, 92 TE: 23B, 116, 238	SE/TE: 18, 231, 580, 633	SE/TE: 226, 285, 311, 522, 575 TE: 363A

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.2.2.b Identify and explain the properties used in solving equations and inequalities.	SE/TE: 5-11, 12-17, 18-23, 24-29, 31-36, 37-43 TE: 11A-11B, 17A-17B, 23A-23B, 29A-29B, 36A-36B, 43A-43B	SE/TE: 50, 145-150, 151-157, 164-169, 191-197, 198-204 TE: 150A-150B, 157A-157B, 1694A-169B, 197A-197B, 204A-204B	SE/TE: 40-46, 92-99, 101-108, 154-161, 193-201 TE: 46A-46B, 99A-99B, 108A-108B, 161A-161B, 201A-201B
MA 11.2.2.c Simplify algebraic expressions involving integer and fractional exponents.	SE/TE: 177-183, 184-190, 191-198, 199-205, 206-211 TE: 183A-183B, 190A-190B, 198A-198B, 205A-205B, 211A-211B	SE/TE: 18-25 TE: 18A-18B, 25A-25B	SE/TE: 227-234, 235-245 TE: 227A-227B, 234A-234B, 235A-235B, 245A-245B
MA 11.2.2.d Perform operations on rational expressions (add, subtract, multiply, divide, and simplify).	Students simplify and perform operations on rational expressions in enVision Integrated Mathematics III .	Students simplify and perform operations on rational expressions in enVision Integrated Mathematics III .	SE/TE: 131-139, 140-146, 147-153 TE: 139A-139B, 146A-146B, 153A-153B
MA 11.2.2.e Evaluate expressions at specified values of their variables (polynomial, rational, radical, and absolute value).	Students evaluate algebraic expressions as they find the value of a function given a rule, as they check equation solutions, and as they apply functions, formulas, and equations to solve problems. Sample references appear below.		
	SE/TE: 19-20, 37, 106, 144, 182, 192-193, 200, 202, 236, 238, 373, 408-411, 455 TE: 111B, 191	SE/TE: 19-25, 29-30, 32-33, 64, 246, 264, 302, 375, 385, 392, 579, 633 TE: 25A-25B, 176B, 190B	SE/TE: 37, 86, 109, 171, 205-206, 236-242, 276, 283, 429, 521 TE: 92B, 242A-242B
MA 11.2.2.f Solve an equation involving several variables for one variable in terms of the others.	SE/TE: 18-23 TE: 18A-18B, 23A-23B	TE: 50, 176B, 589	SE/TE: 219, 235, 312, 359

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.2.2.g Solve linear and absolute value equations and inequalities.	SE/TE: 5-11, 12-17, 24-29, 31-36, 37-43 TE: 11A-11B, 17A-17B, 29A-29B, 36A-36B, 43A-43B	Lessons on solving linear and absolute value equations and inequalities are contained in enVision Integrated Mathematics I.	Lessons on solving linear and absolute value equations and inequalities are contained in enVision Integrated Mathematics I.
MA 11.2.2.h Analyze and solve systems of two linear equations and inequalities in two variables algebraically and graphically.	SE/TE: 137-143, 144-150, 151-157, 158-163, 165-170 TE: 143A-143B, 150A-150B, 157A-157B, 163A-163B, 170A-170B	SE/TE: 170-175, 205-211 TE: 170A-170B, 175A-175, 205A-205B, 211A-211B	SE/TE: 47-52 TE: 47A-47B, 52A-52B
MA 11.2.2.i Perform operations (addition subtraction, multiplication, and division) on polynomials.	Students perform operations on polynomials in enVision Integrated Mathematics II and III.	SE/TE: 47-54, 55-62, 63-68 TE: 54A-54B, 62A-62B, 68A-68B	SE/TE: 69-75, 76-83, 84-91 TE: 75A-75B, 83A-83B, 91A-91B
MA 11.2.2.j Factor polynomials to include factoring out monomial terms and factoring quadratic expressions.	Students factor polynomials in enVision Integrated Mathematics II and III.	SE/TE: 69-74, 75-81, 83-88, 89-94, 151-157 TE: 74A-74B, 81A-81B, 88A-88B, 94A-94B, 157A-157B	SE/TE: 92-99 TE: 92A-92B, 99A-99B
MA 11.2.2 k. Recognize polynomial multiplication patterns and their related factoring patterns (e.g., $(a + b)^2 = a^2 + 2ab + b^2$, $a^2 - b^2 = (a + b)(a - b)$).	Students recognize polynomial multiplication and factoring patterns in enVision Integrated Mathematics II and III.	SE/TE: 63-68, 89-94, 212-222 TE: 68A-68B, 94A-94B, 222A-222B	SE/TE: 76-83 TE: 76A-76B, 83A-83B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.2.2.l Make the connection between the factors of a polynomial and the zeros of a polynomial.	Students connect polynomial factors and zeros in enVision Integrated Mathematics II and III .	SE/TE: 69-74, 75-81, 83-88, 89-94, 151-157 TE: 74A-74B, 81A-81B, 88A-88B, 94A-94B, 157A-157B	SE/TE: 92-99, 101-108 TE: 99A-99B, 108A-108B
MA 11.2.2.m Combine functions by composition and perform operations (addition, subtraction, multiplication, division) on functions.	SE/TE: 96-102, 206-211 TE: 96A-96B, 102A-102B, 206A-206B, 211A-211B	SE/TE: 275-280 TE: 275A-275B, 280A-280B	SE/TE: 203-210, 211-219 TE: 203A-203B, 210A-210B, 211A-211B, 219A-219B
MA 11.2.2.n Solve quadratic equations involving real coefficients and real or imaginary roots.	Students solve quadratic equations in enVision Integrated Mathematics II and III .	SE/TE: 145-150, 151-157, 164-169, 191-197, 198-204 TE: 150A-150B, 157A-157B, 169A-169B, 197A-197B, 204A-204B	SE/TE: 40-46, 92-99, 101-108 TE: 46A-46B, 99A-99B, 108A-108B
MA 11.2.3 Applications: Students will solve real-world problems involving linear equations and inequalities, systems of linear equations, quadratic, exponential, square root, and absolute value functions.			
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).	Students apply math to solve real-world problems in every lesson through examples in the instructional pages and applications in the practice and problem solving pages. In addition, each topic includes a Mathematical Modeling in 3 Acts lesson which relates the content of the topic to a real-world problem situation; these lessons are cited below.		
	SE/TE: 30, 69, 103, 164, 212, 249, 313, 356, 380, 467 TE: 30A-30B, 69A-69B, 103A-103B, 164A-164B, 212A-212B, 249A-249B, 313A-313B, 356A-356B, 380A-380B, 467A-467B	SE/TE: 26, 82, 131, 176, 190, 236, 327, 364, 444, 498 TE: 26A-26B, 82A-82B, 131A-131B, 176A-176B, 190A-190B, 236A-236B, 327A-327B, 364A-364B, 444A-444B, 498A-498B	SE/TE: 53, 100, 162, 202, 246, 332, 363, 439, 480, 527 TE: 53A-53B, 100A-100B, 162A-162B, 202A-202B, 246A-246B, 332A-332B, 363A-363B, 439A-439B, 480A-480B, 527A-527B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
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.			
MA 11.3.1 Characteristics: Students will identify and describe geometric characteristics and create two- and three-dimensional shapes.			
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.	SE/TE: 70-76, 219-227, 285-291, 292-298, 299-305, 306-312, 415-422 TE: 76A-76B, 227A-227B, 291A-291B, 298A-298B, 305A-305B, 312A-312B, 422A-422B	SE/TE: 304-310, 311-318, 569-576 TE: 310A-310B, 318A-318B, 576A-576B	SE/TE: 466-472, 511-518 TE: 472A-472B, 518A-518B
MA 11.3.1.b Prove geometric theorems about angles, triangles, congruent triangles, similar triangles, parallel lines with transversals, and quadrilaterals using deductive reasoning.	SE/TE: 232, 265-271, 285-291, 292-298, 299-305, 306-312, 320, 324, 381-387, 388-395, 413 TE: 271A-271B, 291A-291B, 298A-298B, 305A-305B, 312A-312B, 387A-387B, 395A-395B	SE/TE: 304-310, 311-318, 319-326, 328-335, 336-342, 343-348, 374-382, 383-390, 391-397, 398-405, 429-435, 436-443, 445-451, 452-460, 461-470 TE: 310A-310B, 318A-318B, 326A-326B, 335A-335B, 342A-342B, 348A-348B, 382A-382B, 390A-390B, 397A-397B, 405A-405B, 435A-435B, 443A-443B, 451A-451B, 460A-460B, 470A-470B	SE/TE: 466-472, 473-479, 481-490 TE: 472A-472B, 479A-479B, 490A-490B
MA 11.3.1.c Apply geometric properties to solve problems involving similar triangles, congruent triangles, quadrilaterals, and other polygons.	SE/TE: 381-387, 388-395, 396-401, 402-407 TE: 387A-387B, 395A-395B, 401A-401B, 407A-407B	SE/TE: 436-443, 445-451, 452-460, 461-470 TE: 443A-443B, 451A-451B, 460A-460B, 467A-467B, 468-470	SE/TE: 473-479 TE: 473A-473B, 479A-479B

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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.	SE/TE: 419	SE/TE: 436-443, 452-460, 461-467, 468-470 TE: 443A-443B, 460A-460B, 467A-467B	SE/TE: 373-374, 377-378 TE: 373B, 378B
MA 11.3.1.e Create geometric models to visualize, describe, and solve problems using similar triangles, right triangles, and trigonometry.	SE/TE: 419	SE/TE: 414, 419, 440, 443, 454, 457, 460, 464, 467, 470 TE: 428B, 436B, 443B, 460B, 467B	SE/TE: 373-378 TE: 373A-378B
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.	SE/TE: 415-422 TE: 415A-422B	SE/TE: 577-584, 585, 586-593, 594-600, 601-608 TE: 584A-584B, 585A-585B, 593A-593B, 600A-600B, 608A-608B	SE/TE: 519-526, 528-535, 536-542, 543-550 TE: 526A-526B, 535A-535B, 542A-542B, 550A-550B
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.	SE/TE: 415-422 TE: 415A-415B, 422A-422B	SE/TE: 577-584, 585, 586-593, 594-600, 601-608 TE: 584A-584B, 585A-585B, 593A-593B, 600A-600B, 608A-608B	SE/TE: 519-526, 528-535, 536-542, 543-550 TE: 526A-526B, 535A-535B, 542A-542B, 550A-550B
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.	SE/TE: 218, 227, 228-235, 238-241, 249, 271, 284, 290-291, 294-295, 298, 302, 305, 312, 313, 418, 421 TE: 228A-228B, 235A-235B, 236B, 249A-249B, 313A-313B	SE/TE: 541, 546, 549, 555, 559, 562, 568, 573, 576, 584 TE: 555B, 585A-585B	SE/TE: 455-465, 472, 487, 489-490, 496, 562, 564-567, 570 TE: 465A-465B, 466B, 472B, 571A-571B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.3.2 Coordinate Geometry: Students will determine location, orientation, and relationships on the coordinate plane.			
MA 11.3.2.a Derive and apply the midpoint formula.	SE/TE: 236-241, 408-414 TE: 236A-236B, 241A-241B, 408A-408B, 414A-414B	SE/TE: 535-541, 543-549, 550-555 TE: 541A-541B, 549A-549B, 555A-555B	SE/TE: 473-479 TE: 473A-473B, 479A-479B
MA 11.3.2.b Use coordinate geometry to analyze linear relationships to determine if lines are parallel or perpendicular.	SE/TE: 70-76, 306-312, 313 TE: 76A-76B, 312A-312B, 313A-313B	Students analyze parallel and perpendicular lines in the coordinate plane in enVision Integrated Mathematics I and III.	SE/TE: 466-472 TE: 466A-466B, 472A-472B
MA 11.3.2.c Given a line, write the equation of a line that is parallel or perpendicular to it.	SE/TE: 70-76, 306-312, 313 TE: 76A-76B, 312A-312B, 313A-313B	Students write equations of parallel and perpendicular lines in enVision Integrated Mathematics I and III.	SE/TE: 466-472 TE: 466A-466B, 472A-472B
MA 11.3.2.d Derive and apply the distance formula.	SE/TE: 236-241, 408-414 TE: 236A-236B, 241A-241B, 408A-408B, 414A-414B	SE/TE: 535-541, 543-549, 550-555 TE: 541A-541B, 549A-549B, 555A-555B	SE/TE: 473-479 TE: 473A-473B, 479A-479B
MA 11.3.2.e Use coordinate geometry to prove triangles are right, acute, obtuse, isosceles, equilateral, or scalene.	SE/TE: 371-379, 408-414 TE: 371A-371B, 379A-379B, 408A-408B, 414A-414B	Students explore properties of polygons in the coordinate plane in enVision Integrated Mathematics I and III.	SE/TE: 473-479 TE: 473A-473B, 479A-479B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.3.2.f Use coordinate geometry to prove quadrilaterals are trapezoids, isosceles trapezoids, parallelograms, rectangles, rhombi, kites, or squares.	SE/TE: 408-414 TE: 408A-408B, 414A-414B	Students explore properties of polygons in the coordinate plane in enVision Integrated Mathematics I and III.	SE/TE: 473-479 TE: 473A-473B, 479A-479B
MA 11.3.2.g Perform and describe positions and orientation of shapes under a single translation using algebraic notation on a coordinate plane.	SE/TE: 327-334, 343-349 TE: 327A-327B, 334A-334B, 343A-343B, 349A-349B	Students perform translations of shapes in the coordinate plane in enVision Integrated Mathematics I.	Students perform translations of shapes in the coordinate plane in enVision Integrated Mathematics I.
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.	SE/TE: 335-342, 343-349 TE: 335A-335B, 342A-342B, 343A-343B, 349A-349B	Students perform rotations about the origin in the coordinate plane in enVision Integrated Mathematics I.	Students perform rotations about the origin in the coordinate plane in enVision Integrated Mathematics I.
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.	SE/TE: 319-326, 343-349 TE: 319A-319B, 326A-326B, 343A-343B, 349A-349B	Students perform reflections in the coordinate plane in enVision Integrated Mathematics I.	Students perform reflections in the coordinate plane in enVision Integrated Mathematics I.
MA 11.3.2.j Perform and describe positions and orientation of shapes under a single dilation on a coordinate plane.	Students perform dilations in the coordinate plane in enVision Integrated Mathematics II.	SE/TE: 413-421, 422-428 TE: 413A-413B, 421A-421B, 422A-422B, 428A-428B	Students perform dilations in the coordinate plane in enVision Integrated Mathematics II.

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.3.2.k Derive the equation of a circle given the radius and the center.	Students derive the equation of a circle in enVision Integrated Mathematics II and III .	SE/TE: 550-555 TE: 550A-550B, 555A-555B	SE/TE: 491-496 TE: 491A-491B, 496A-496B
MA 11.3.3 Measurement: Students will perform and compare measurements and apply formulas.			
MA 11.3.3.a Convert between various units of length, area, and volume (e.g., such as square feet to square yards).	SE/TE: 5, 9, 20, 92 TE: 23B, 116, 238	SE/TE: 18, 231, 580, 633	SE/TE: 226, 285, 311, 522, 575 TE: 363A
MA 11.3.3.b Convert between metric and standard units of measurement.	While students use and apply units of measurement when solving problems, there are not specific lessons on converting between metric and standard units of measurement.		
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.	SE/TE: 22, 33, 55-56, 69, 93-95, 108, 112-113, 119, 179, 227, 422 TE: 69A-69B, 431-434, 467-467B	SE/TE: 10, 43, 68, 88, 94, 109, 163, 178, 373, 382 TE: 10B, 17A, 29, 33A, 36, 99A-99B, 130B	SE/TE: 68, 113, 222, 429, 487, 565, 568, 570, 573, 580 TE: 275, 472B, 563, 587A-587B
MA 11.3.3.d Find arc length and area of sectors of a circle.	Students calculate arc lengths and sector areas in enVision Integrated Mathematics II and III .	SE/TE: 569-576 TE: 569A-569B, 576A-576B	SE/TE: 511-518 TE: 511A-511B, 518A-518B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.3.3.e Determine surface area and volume of spheres, cones, pyramids, and prisms using formulas and appropriate units.	Students calculate surface areas and volumes in enVision Integrated Mathematics II and III .	SE/TE: 615-620, 621-628, 630-636, 637-642 TE: 620A-620B, 628A-628B, 636A-636B, 642A-642B	SE/TE: 557-562, 563-570, 572-578, 579-584 TE: 562A-562B, 570A-570B, 578A-578B, 584A-584B
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.			
MA 11.4.1 Representations: Students will create displays that represent data.			
No additional indicator(s) at this level. Mastery is expected at previous grade levels.			
MA 11.4.2 Analysis & Applications: 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.	SE/TE: 438-445, 446-452, 453-460 TE: 445A-445B, 452A-452B, 460A-460B	Students identify and compute measures of central tendency in enVision Integrated Mathematics I and III .	SE/TE: 407-414 TE: 407A-407B, 414A-414B
MA 11.4.2.b Explain how transformations of data, including outliers, affect measures of central tendency.	SE/TE: 438-445, 446-452, 453-460 TE: 445A-445B, 452A-452B, 460A-460B	Students explain the impact of transformations of data in enVision Integrated Mathematics I and III .	SE/TE: 407-414 TE: 407A-407B, 414A-414B
MA 11.4.2.c Compare data sets and formulate conclusions.	SE/TE: 438-445, 446-452, 453-460 TE: 445A-445B, 452A-452B, 460A-460B	Students compare data sets and formulate conclusions in enVision Integrated Mathematics I and III .	SE/TE: 407-414 TE: 407A-407B, 414A-414B
MA 11.4.2.d Support conclusions with valid arguments.	SE/TE: 438-445, 446-452, 453-460 TE: 445A-445B, 452A-452B, 460A-460B	Students support conclusions about data with valid arguments in enVision Integrated Mathematics I and III .	SE/TE: 407-414 TE: 407A-407B, 414A-414B

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.4.2.e Develop linear equations for linear models to predict unobserved outcomes using the regression line and correlation coefficient with technology.	SE/TE: 112-119, 120-128 TE: 112A-112B, 119A-119B, 120A-120B, 128A-128B	SE/TE: 22, 132-139 TE: 132A-132B, 139A-139B	Students develop linear equations for linear models to predict unobserved outcomes in enVision Integrated Mathematics I and II.
MA 11.4.2.f Describe the shape, identify any outliers, and determine the spread of a data set.	SE/TE: 438-445, 446-452, 453-460 TE: 445A-445B, 452A-452B, 460A-460B	Students describe the shape of a data set in enVision Integrated Mathematics I and III.	SE/TE: 407-414 TE: 407A-407B, 414A-414B
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.	Students explain the impact of sampling methods in enVision Integrated Mathematics III.	Students explain the impact of sampling methods in enVision Integrated Mathematics III.	SE/TE: 393-399, 400-406 TE: 393A-399B, 400A-406B
MA 11.4.2.h Explain the differences between a randomized experiment and observational studies.	SE/TE: 125, 248, 430, 461-466 TE: 127, 461A-461B	Students explain the differences between a randomized experiment and observational studies in enVision Integrated Mathematics I and III.	SE/TE: 400-406 TE: 400A-406B
MA 11.4.2.i Using scatter plots, analyze patterns and describe relationships in paired data.	SE/TE: 112-119, 120-128 TE: 112A-112B, 119A-119B, 120A-120B, 128A-128B	SE/TE: 22, 132-139 TE: 132A-132B, 139A-139B	SE/TE: 235-242, 243-245, 246, 247-253 TE: 242A-242B, 246A-246B, 253A-253B
MA 11.4.2.j Recognize when arguments based on data confuse correlation with causation.	SE/TE: 112-119, 120-128 TE: 112A-112B, 119A-119B, 120A-120B, 128A-128B	SE/TE: 138 TE: 17B	SE/TE: 253 TE: 257

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Nebraska Mathematics Standards Grades 9 – 11	enVision Integrated Mathematics Mathematics I	enVision Integrated Mathematics Mathematics II	enVision Integrated Mathematics Mathematics III
MA 11.4.2.k Interpret data represented by the normal distribution, formulate conclusions, and recognize that some data sets are not normally distributed.	SE/TE: 450, 453-460 TE: 453A453B, 460A-460B	Students interpret and apply normally distributed data in enVision Integrated Mathematics I and III.	SE/TE: 415-422 TE: 415A-415B, 422A-422B
MA 11.4.3 Probability: Students will interpret and apply concepts of probability.			
MA 11.4.3.a Construct sample spaces and probability distributions.	Students construct sample spaces and probability distributions in enVision Integrated Mathematics II.	SE/TE: 483-490, 506-513 TE: 483A-483B, 490A-490B, 506A-506B, 513A-513B	Students construct sample spaces and probability distributions in enVision Integrated Mathematics II.
MA 11.4.3.b Use appropriate counting techniques to determine the probability of an event.	Students use permutations and combinations to calculate probabilities in enVision Integrated Mathematics II.	SE/TE: 499-505 TE: 499A-499B, 505A-505B	Students use permutations and combinations to calculate probabilities in enVision Integrated Mathematics II.
MA 11.4.3.c Determine if events are mutually exclusive and calculate their probabilities in either case.	Students identify mutually exclusive events and calculate their probabilities in enVision Integrated Mathematics II.	SE/TE: 483-490 TE: 483A-483B, 490A-490B	Students identify mutually exclusive events and calculate their probabilities in enVision Integrated Mathematics II.

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