

## Algebra II v5 – Content Unit Correlation

Standards Report – showing Matching Content Units as of 1/28/2008

Grades: 9, 10, 11, 12

States: CT

Subjects: Mathematics

Connecticut Standards - Mathematics

DOMAIN / CONTENT  
STANDARD

CT.1. Algebraic Reasoning: Patterns And Functions: Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies.

CONTENT /  
PERFORMANCE  
STANDARD

1.1. Students should understand and describe patterns and functional relationships.

PERFORMANCE  
STANDARD / GLE

1.1.C.a. Core: Describe relationships and make generalizations about patterns and functions.

**Grade 9**

Module 1: Junior Associate Review of Basic Algebra

Module 8: Senior Staff Sequences, Series, Probability and Statistics

CONTENT /  
PERFORMANCE  
STANDARD

1.2. Students should represent and analyze quantitative relationships in a variety of ways.

PERFORMANCE  
STANDARD / GLE

1.2.C.a. Core: Represent and analyze linear and nonlinear functions and relations symbolically and with tables and graphs.

**Grade 9**

Module 1: Junior Associate Review of Basic Algebra

Module 3: Senior Associate Radical & Quadratic Relations

Module 5: Advisory Conic Sections

Module 6: Junior Staff Rational Relations

Module 9: Executive Senior All Function and Relation Review

CONTENT /  
PERFORMANCE  
STANDARD

1.3. Students should use operations, properties and algebraic symbols to determine equivalence and solve problems.

PERFORMANCE  
STANDARD / GLE

1.3.C.a. Core: Manipulate equations, inequalities and functions to solve problems.

**Grade 9**

Module 1: Junior Associate Review of Basic Algebra

Module 2: Associate Operations on Polynomials

Module 3: Senior Associate Radical & Quadratic Relations

Module 9: Executive Senior All Function and Relation Review

PERFORMANCE

1.3.E.a. Extended: Use and extend algebraic concepts to include real and

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Subjects: Mathematics

STANDARD / GLE

complex numbers, vectors and matrices.

**Grade 9**

Module 3: Senior Associate Radical & Quadratic Relations

Module 4: Junior Advisory Systems of Equations and Inequalities

DOMAIN / CONTENT  
STANDARD

CT.2. Numerical and Proportional Reasoning: Quantitative relationships can be expressed numerically in multiple ways in order to make connections and simplify calculations using a variety of strategies, tools and technologies.

CONTENT /  
PERFORMANCE  
STANDARD

2.1. Students should understand that a variety of numerical representations can be used to describe quantitative relationships.

PERFORMANCE  
STANDARD / GLE

2.1.C.a. Core: Extend the understanding of number to include integers, rational numbers and real numbers.

**Grade 9**

Module 1: Junior Associate Review of Basic Algebra

Module 3: Senior Associate Radical & Quadratic Relations

PERFORMANCE  
STANDARD / GLE

2.1.E.a. Extended: Extend the understanding of number to include the set of complex numbers.

**Grade 9**

Module 3: Senior Associate Radical & Quadratic Relations

CONTENT /  
PERFORMANCE  
STANDARD

2.2. Students should use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.

PERFORMANCE  
STANDARD / GLE

2.2.C.a. Core: Develop strategies for computation and estimation using properties of number systems to solve problems.

**Grade 9**

Module 1: Junior Associate Review of Basic Algebra

PERFORMANCE  
STANDARD / GLE

2.2.E.a. Extended: Investigate mathematical properties and operations related to objects that are not numbers.

**Grade 9**

Module 2: Associate Operations on Polynomials

DOMAIN / CONTENT

CT.4. Working with Data: Probability and Statistics: Data can be analyzed to

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STANDARD		make informed decisions using a variety of strategies, tools and technologies.
CONTENT / PERFORMANCE STANDARD	4.2.	Students should analyze data sets to form hypotheses and make predictions.
PERFORMANCE STANDARD / GLE	4.2.E.a.	Extended: Describe and analyze sets of data using statistical models. <b>Grade 9</b> Module 8: Senior Staff Sequences, Series, Probability and Statistics Module 9: Executive Senior All Function and Relation Review
CONTENT / PERFORMANCE STANDARD	4.3.	Students should understand and apply basic concepts of probability.
PERFORMANCE STANDARD / GLE	4.3.C.a.	Core: Understand and apply the principles of probability in a variety of situations. <b>Grade 9</b> Module 8: Senior Staff Sequences, Series, Probability and Statistics Module 9: Executive Senior All Function and Relation Review
PERFORMANCE STANDARD / GLE	4.3.E.a.	Extended: Solve problems using the methods of discrete mathematics. <b>Grade 9</b> Module 8: Senior Staff Sequences, Series, Probability and Statistics Module 9: Executive Senior All Function and Relation Review
PERFORMANCE STANDARD / GLE	4.3.E.b.	Extended: Make statistical inferences through the use of probability. <b>Grade 9</b> Module 8: Senior Staff Sequences, Series, Probability and Statistics Module 9: Executive Senior All Function and Relation Review
DOMAIN / CONTENT STANDARD	CT.1.	Algebraic Reasoning: Patterns And Functions: Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies.

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CONTENT /  
PERFORMANCE  
STANDARD

1.1. Students should understand and describe patterns and functional relationships.

PERFORMANCE  
STANDARD / GLE

1.1.C.a. Core: Describe relationships and make generalizations about patterns and functions.

**Grade 10**

Module 1: Junior Associate Review of Basic Algebra  
Module 8: Senior Staff Sequences, Series, Probability and Statistics

CONTENT /  
PERFORMANCE  
STANDARD

1.2. Students should represent and analyze quantitative relationships in a variety of ways.

PERFORMANCE  
STANDARD / GLE

1.2.C.a. Core: Represent and analyze linear and nonlinear functions and relations symbolically and with tables and graphs.

**Grade 10**

Module 1: Junior Associate Review of Basic Algebra  
Module 3: Senior Associate Radical & Quadratic Relations  
Module 5: Advisory Conic Sections  
Module 9: Executive Senior All Function and Relation Review

CONTENT /  
PERFORMANCE  
STANDARD

1.3. Students should use operations, properties and algebraic symbols to determine equivalence and solve problems.

PERFORMANCE  
STANDARD / GLE

1.3.C.a. Core: Manipulate equations, inequalities and functions to solve problems.

**Grade 10**

Module 1: Junior Associate Review of Basic Algebra  
Module 2: Associate Operations on Polynomials  
Module 3: Senior Associate Radical & Quadratic Relations  
Module 9: Executive Senior All Function and Relation Review

PERFORMANCE  
STANDARD / GLE

1.3.E.a. Extended: Use and extend algebraic concepts to include real and complex numbers, vectors and matrices.

**Grade 10**

Module 3: Senior Associate Radical & Quadratic Relations  
Module 4: Junior Advisory Systems of Equations and Inequalities

DOMAIN / CONTENT  
STANDARD

CT.2. Numerical and Proportional Reasoning: Quantitative relationships can be expressed numerically in multiple ways in order to make connections and

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Subjects: Mathematics

simplify calculations using a variety of strategies, tools and technologies.

CONTENT /  
PERFORMANCE  
STANDARD

2.1. Students should understand that a variety of numerical representations can be used to describe quantitative relation-ships.

PERFORMANCE  
STANDARD / GLE

2.1.C.a. Core: Extend the understanding of number to include integers, rational numbers and real numbers.

**Grade 10**

Module 1: Junior Associate Review of Basic Algebra

Module 3: Senior Associate Radical & Quadratic Relations

PERFORMANCE  
STANDARD / GLE

2.1.E.a. Extended: Extend the understanding of number to include the set of complex numbers.

**Grade 10**

Module 3: Senior Associate Radical & Quadratic Relations

CONTENT /  
PERFORMANCE  
STANDARD

2.2. Students should use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.

PERFORMANCE  
STANDARD / GLE

2.2.C.a. Core: Develop strategies for computation and estimation using properties of number systems to solve problems.

**Grade 10**

Module 1: Junior Associate Review of Basic Algebra

PERFORMANCE  
STANDARD / GLE

2.2.E.a. Extended: Investigate mathematical properties and operations related to objects that are not numbers.

**Grade 10**

Module 2: Associate Operations on Polynomials

DOMAIN / CONTENT  
STANDARD

CT.4. Working with Data: Probability and Statistics: Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.

CONTENT /  
PERFORMANCE  
STANDARD

4.3. Students should understand and apply basic concepts of probability.

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PERFORMANCE  
STANDARD / GLE

4.3.C.a. Core: Understand and apply the principles of probability in a variety of situations.

**Grade 10**

Module 8: Senior Staff Sequences, Series, Probability and Statistics

Module 9: Executive Senior All Function and Relation Review

DOMAIN / CONTENT  
STANDARD

CT.1. Algebraic Reasoning: Patterns And Functions: Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies.

CONTENT /  
PERFORMANCE  
STANDARD

1.1. Students should understand and describe patterns and functional relationships.

PERFORMANCE  
STANDARD / GLE

1.1.C.a. Core: Describe relationships and make generalizations about patterns and functions.

**Grade 11**

Module 1: Junior Associate Review of Basic Algebra

Module 8: Senior Staff Sequences, Series, Probability and Statistics

CONTENT /  
PERFORMANCE  
STANDARD

1.2. Students should represent and analyze quantitative relationships in a variety of ways.

PERFORMANCE  
STANDARD / GLE

1.2.C.a. Core: Represent and analyze linear and nonlinear functions and relations symbolically and with tables and graphs.

**Grade 11**

Module 1: Junior Associate Review of Basic Algebra

Module 3: Senior Associate Radical & Quadratic Relations

Module 5: Advisory Conic Sections

Module 9: Executive Senior All Function and Relation Review

CONTENT /  
PERFORMANCE  
STANDARD

1.3. Students should use operations, properties and algebraic symbols to determine equivalence and solve problems.

PERFORMANCE  
STANDARD / GLE

1.3.C.a. Core: Manipulate equations, inequalities and functions to solve problems.

**Grade 11**

Module 1: Junior Associate Review of Basic Algebra

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### Module 9: Executive Senior All Function and Relation Review

PERFORMANCE  
STANDARD / GLE

1.3.E.a. Extended: Use and extend algebraic concepts to include real and complex numbers, vectors and matrices.

**Grade 11**

Module 3: Senior Associate Radical & Quadratic Relations

Module 4: Junior Advisory Systems of Equations and Inequalities

DOMAIN / CONTENT  
STANDARD

CT.2. Numerical and Proportional Reasoning: Quantitative relationships can be expressed numerically in multiple ways in order to make connections and simplify calculations using a variety of strategies, tools and technologies.

CONTENT /  
PERFORMANCE  
STANDARD

2.1. Students should understand that a variety of numerical representations can be used to describe quantitative relationships.

PERFORMANCE  
STANDARD / GLE

2.1.C.a. Core: Extend the understanding of number to include integers, rational numbers and real numbers.

**Grade 11**

Module 1: Junior Associate Review of Basic Algebra

Module 3: Senior Associate Radical & Quadratic Relations

PERFORMANCE  
STANDARD / GLE

2.1.E.a. Extended: Extend the understanding of number to include the set of complex numbers.

**Grade 11**

Module 3: Senior Associate Radical & Quadratic Relations

CONTENT /  
PERFORMANCE  
STANDARD

2.2. Students should use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.

PERFORMANCE  
STANDARD / GLE

2.2.C.a. Core: Develop strategies for computation and estimation using properties of number systems to solve problems.

**Grade 11**

Module 1: Junior Associate Review of Basic Algebra

PERFORMANCE  
STANDARD / GLE

2.2.E.a. Extended: Investigate mathematical properties and operations related to objects that are not numbers.

**Grade 11**

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### Module 2: Associate Operations on Polynomials

DOMAIN / CONTENT  
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CT.4. Working with Data: Probability and Statistics: Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.

CONTENT /  
PERFORMANCE  
STANDARD

4.3. Students should understand and apply basic concepts of probability.

PERFORMANCE  
STANDARD / GLE

4.3.C.a. Core: Understand and apply the principles of probability in a variety of situations.

**Grade 11**

Module 8: Senior Staff Sequences, Series, Probability and Statistics

Module 9: Executive Senior All Function and Relation Review

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STANDARD / GLE

1.1.C.a. Core: Describe relationships and make generalizations about patterns and functions.

**Grade 12**

Module 1: Junior Associate Review of Basic Algebra

Module 8: Senior Staff Sequences, Series, Probability and Statistics

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Module 5: Advisory Conic Sections

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PERFORMANCE  
STANDARD / GLE

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