

Algebra I 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 04: Sports and Leisure

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 03: Communications

Module 05: Sports and Leisure II

Module 10: Review

PERFORMANCE
STANDARD / GLE

1.2.E.a. Extended: Relate the behavior of functions and relations to specific parameters and determine functions to model real-world situations.

Grade 9

Module 04: Sports and Leisure

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 01: Itinerary

Module 04: Sports and Leisure

Module 05: Sports and Leisure II

Module 07: Health II

Module 09: Business II

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

Grades: 9, 10, 11, 12

States: CT

Subjects: Mathematics

Module 10: Review

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 03: Communications

PERFORMANCE
STANDARD / GLE

2.1.C.b. Core: Interpret and represent large sets of numbers with the aid of technologies.

Grade 9

Module 02: Travel

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 04: Sports and Leisure

PERFORMANCE
STANDARD / GLE

2.2.C.b. Core: Solve proportional reasoning problems.

Grade 9

Module 01: Itinerary

PERFORMANCE
STANDARD / GLE

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

Grade 9

Module 04: Sports and Leisure

Module 06: Health

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Subjects: Mathematics

DOMAIN / CONTENT STANDARD	CT.3. Geometry and Measurement: Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.
CONTENT / PERFORMANCE STANDARD	3.3. Students should develop and apply units, systems, formulas and appropriate tools to estimate and measure.
PERFORMANCE STANDARD / GLE	3.3.C.a. Core: Solve a variety of problems involving 1-, 2- and 3-dimensional measurements using geometric relationships and trigonometric ratios. Grade 9 Module 01: Itinerary Module 06: Health Module 07: Health II Module 10: Review
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	4.1. Students should collect, organize and display data using appropriate statistical and graphical methods.
PERFORMANCE STANDARD / GLE	4.1.E.a. Extended: Model real data graphically using appropriate tools, technologies and strategies. Grade 9 Module 02: Travel
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. Grade 9 Module 02: Travel
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 04: Sports and Leisure

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 03: Communications

Module 05: Sports and Leisure II

Module 10: Review

PERFORMANCE
STANDARD / GLE

1.2.E.a. Extended: Relate the behavior of functions and relations to specific parameters and determine functions to model real-world situations.

Grade 10

Module 04: Sports and Leisure

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 01: Itinerary

Module 04: Sports and Leisure

Module 05: Sports and Leisure II

Module 07: Health II

Module 09: Business II

Module 10: Review

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.

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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 03: Communications

PERFORMANCE
STANDARD / GLE

2.1.C.b. Core: Interpret and represent large sets of numbers with the aid of technologies.

Grade 10

Module 02: Travel

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 04: Sports and Leisure

PERFORMANCE
STANDARD / GLE

2.2.C.b. Core: Solve proportional reasoning problems.

Grade 10

Module 01: Itinerary

PERFORMANCE
STANDARD / GLE

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

Grade 10

Module 04: Sports and Leisure

Module 06: Health

DOMAIN / CONTENT
STANDARD

CT.3. Geometry and Measurement: Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.

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CONTENT /
PERFORMANCE
STANDARD

3.3. Students should develop and apply units, systems, formulas and appropriate tools to estimate and measure.

PERFORMANCE
STANDARD / GLE

3.3.C.a. Core: Solve a variety of problems involving 1-, 2- and 3-dimensional measurements using geometric relationships and trigonometric ratios.

Grade 10

Module 01: Itinerary

Module 06: Health

Module 07: Health II

Module 10: Review

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

4.1. Students should collect, organize and display data using appropriate statistical and graphical methods.

PERFORMANCE
STANDARD / GLE

4.1.E.a. Extended: Model real data graphically using appropriate tools, technologies and strategies.

Grade 10

Module 02: Travel

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 04: Sports and Leisure

CONTENT /
PERFORMANCE
STANDARD

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Subjects: Mathematics

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 03: Communications

Module 05: Sports and Leisure II

Module 10: Review

PERFORMANCE
STANDARD / GLE

1.2.E.a. Extended: Relate the behavior of functions and relations to specific parameters and determine functions to model real-world situations.

Grade 11

Module 04: Sports and Leisure

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 01: Itinerary

Module 04: Sports and Leisure

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Module 07: Health II

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DOMAIN / CONTENT
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CONTENT /
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PERFORMANCE
STANDARD / GLE

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

Grade 11

Module 03: Communications

PERFORMANCE
STANDARD / GLE

2.1.C.b. Core: Interpret and represent large sets of numbers with the aid of technologies.

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Grade 11

Module 02: Travel

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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 04: Sports and Leisure

PERFORMANCE
STANDARD / GLE

2.2.C.b. Core: Solve proportional reasoning problems.

Grade 11

Module 01: Itinerary

PERFORMANCE
STANDARD / GLE

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

Grade 11

Module 04: Sports and Leisure

Module 06: Health

DOMAIN / CONTENT
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CT.3. Geometry and Measurement: Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.

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PERFORMANCE
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Grade 11

Module 01: Itinerary

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4.1.E.a. Extended: Model real data graphically using appropriate tools, technologies and strategies.

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Grade 12
Module 03: Communications
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