

MATHEMATICS CURRICULUM

Course: Consumer Mathematics
 Standard: Algebraic Reasoning: Patterns and Functions

Grade Level: 11-12
 Duration:

Essential Question: How do patterns and functions help us describe data and physical phenomena and solve a variety of problems?

VOCABULARY:

UNIT GOAL	PERFORMANCE STANDARDS	EXPECTED PERFORMANCE ASSESSMENT	CAPT ASSESSMENT/ CT STANDARD AND PROFICIENCY CONCEPTS
<p>Students will...</p> <ul style="list-style-type: none"> Describe patterns and functional relationships. 	<p>How?</p> <p>Students will...</p> <ul style="list-style-type: none"> Describe relationships and make generalizations about patterns and functions. 	<p>Students will be able to...</p> <ul style="list-style-type: none"> Identify and generalize numeric, geometric and statistical patterns using tables, graphs, words and symbolic rules. Create and justify predictions based on patterns represented in various ways. 	<p>CT State Standards:</p> <ul style="list-style-type: none"> C1.1.a.1, 2 <p>MHS Expectations:</p> <ul style="list-style-type: none"> AE2, AE4 <p>Instructional Strategies:</p> <p>Assessment Techniques:</p> <p>Technology Benchmark:</p>
<ul style="list-style-type: none"> Use operations, properties and algebraic symbols to determine equivalence and solve problems. 	<ul style="list-style-type: none"> Manipulate equations, inequalities and function to solve problems 	<ul style="list-style-type: none"> Model and solve problems with linear equations and inequalities. Determine equivalent representations of an algebraic equation to simplify and solve problems. 	<p>CT State Standards:</p> <ul style="list-style-type: none"> 1.3.a.1,2 <p>MHS Expectations:</p> <ul style="list-style-type: none"> AE2, AE4 <p>Proficiency Task:</p> <p>Teaching Strategies:</p> <p>Assessment Techniques:</p>

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MATHEMATICS CURRICULUM

Course: Consumer Mathematics
Standard: Numerical and Proportional Reasoning

Grade Level: 11-12
Duration:

Essential Question: How are quantitative relationships represented by numbers?

VOCABULARY:

UNIT GOAL	PERFORMANCE STANDARDS	EXPECTED PERFORMANCE STANDARDS	CAPT ASSESSMENT/ CT STANDARD AND PROFICIENCY CONCEPTS
<p>Students will...</p> <ul style="list-style-type: none"> Describe quantitative relationships using a variety of numerical representations. 	<p>How?</p> <p>Students will...</p> <ul style="list-style-type: none"> Extend the understanding of number to include integers, rational numbers, and real numbers. 	<p>Students will be able to...</p> <ul style="list-style-type: none"> Select an appropriate form of number (fraction, decimal, ratio, percent) to solve practical problems involving financial management. Use technology to organize and analyze spending and savings accounts. 	<p>CT State Standards:</p> <ul style="list-style-type: none"> C2.1.a.2 <p>MHS Expectations:</p> <ul style="list-style-type: none"> AE2, AE4, AE6 <p>Instructional Strategies:</p> <p>Assessment Techniques:</p> <p>Technology Benchmark:</p>
<ul style="list-style-type: none"> Use numbers and their properties to compute flexibly and fluently, and to reasonably estimate quantities. 	<ul style="list-style-type: none"> Develop strategies for computation and estimation using properties of numbers to solve problems involving income. Solve proportional reasoning problems. 	<ul style="list-style-type: none"> Select and use appropriate methods for computing income to solve problems involving gross and net pay. Develop and use a variety of strategies to estimate values of formulas to compute net pay from a given list of payroll deductions. Use dimensional analysis to determine equivalent rates and percentages in order to analyze spending. 	<p>CT State Standards:</p> <ul style="list-style-type: none"> C2.2.a.1,3 C2.2.b.1 <p>MHS Expectations:</p> <ul style="list-style-type: none"> AE2, AE4, AE6 <p>Proficiency Task:</p> <p>Instructional Strategies:</p> <p>Assessment Techniques:</p> <p>Technology Benchmark:</p>

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