

Connecticut State Standards Correlated to Merit Software Math Programs

Elementary School

Objective	Expectations	Merit Software
<p>Students will add, subtract, multiply and divide with whole numbers, fractions, decimals and integers and develop strategies for selecting the appropriate computational and operational methods for solving problems.</p>	<ul style="list-style-type: none"> • maintain proficiency with basic addition, subtraction, multiplication and division facts through the use of a variety of strategies and contexts • develop, use and explain procedures for performing calculations with whole numbers, decimals, fractions and integers • understand the concepts of powers and roots, and apply them in problem situations • select and use an appropriate method for computing from among mental math, estimation, paper-and-pencil and calculator methods • use relationships among operations and properties of operations (associative, commutative and distributive) as well as order of operations and inverses to simplify computations. 	<p>Word Problem Shape-Up</p> <p>Fraction Shape-Up</p>

Middle School

Objective	Expectations	Merit Software
<p>Students will add, subtract, multiply and divide with whole numbers, fractions, decimals and integers and develop strategies for selecting the appropriate computational and operational methods for solving problems.</p>	<ul style="list-style-type: none"> • maintain proficiency with basic addition, subtraction, multiplication and division facts through the use of a variety of strategies and contexts • develop, use and explain procedures for performing calculations with whole numbers, decimals, fractions and integers • understand the concepts of powers and roots, and apply them in problem situations • select and use an appropriate method for computing from among mental math, estimation, paper-and-pencil and calculator methods • use relationships among operations and properties of operations (associative, commutative and distributive) as well as order of operations and inverses to simplify computations. 	<p>Word Problem Shape-Up</p> <p>Pre-Algebra Shape-Up</p> <p>Basic Algebra Shape-Up</p>

High School

Objective	Expectations	Merit Software
Students will use algebraic skills and concepts, including functions, to describe real-world phenomena symbolically and graphically, and to model quantitative change.	<ul style="list-style-type: none">• represent problem situations using finite graphs, matrices, sequences and recurrence relations• develop, analyze, de-cribe, invent and test algorithms define and use permutations, combinations, mathematical induction and recursion to solve combinatorial and algorithmic problems• understand and use appropriate strategies to solve optimization problems	Word Problem Shape-Up Basic Algebra Shape-Up