

# Kentucky English Language Arts Standards Correlated to Merit Software Math Programs

## Elementary School

Standard	Expectations	Merit Software
Students use mathematical ideas and procedures to communicate, reason, and solve problems.	<ul style="list-style-type: none"> <li>• Draw logical conclusions and explain the thinking processes used in solving problems.</li> <li>• Communicate the meanings of number, space, change, data, and measurement using words, pictures, physical materials, and symbols.</li> <li>• Select, apply, and justify appropriate mathematical procedures to solve real-life problems using whole numbers and simple fractions.</li> <li>• Listen to, read about, write about, and speak about mathematical ideas and procedures.</li> </ul>	<p>Word Problem Shape-Up</p> <p>Fraction Shape-Up</p>

## Middle School

Standard	Expectations	Merit Software
Students use mathematical ideas and procedures to communicate, reason, and solve problems.	<ul style="list-style-type: none"> <li>• Select, apply, and justify appropriate mathematical procedures to solve real-life problems using rational</li> </ul>	<p>Word Problem Shape-Up</p> <p>Pre-Algebra Shape-Up</p>

	<p>numbers.</p> <ul style="list-style-type: none"> <li>• Model problem solving situations using oral, written, concrete, pictorial, graphic, and simple algebraic methods.</li> <li>• Communicate the meanings of number, space, change, data, and measurement verbally, pictorially, symbolically, and concretely.</li> <li>• Use deductive and inductive reasoning to synthesize information related to problems, making conjectures, exploring, validating, and convincing others.</li> </ul>	
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## High School

<b>Standard</b>	<b>Expectations</b>	<b>Merit Software</b>
Students use mathematical ideas and procedures to communicate, reason, and solve problems.	<ul style="list-style-type: none"> <li>• Select, apply, and justify appropriate mathematical procedures to solve real-life problems using real numbers.</li> <li>• Communicate the meanings of number, space, change, data, and measurement, formulating mathematical definitions and generalizations and utilizing technology.</li> <li>• Use deductive and inductive reasoning to synthesize information related to problems, developing facility with mathematical language and notation.</li> </ul>	<p>Word Problem Shape-Up</p> <p>Basic Algebra Shape-Up</p>