

**Oyster River Cooperative School District**  
**Mathematics Curriculum (K-12)**  
**Introduction**  
**2010**

This revised edition of the Oyster River Cooperative School District K-12 Mathematics Curriculum is a result of the curriculum implementation and evaluation process for the district. The first phase of this process, (research and first draft) started in 2008. The curriculum was last revised in 2001. NH state standards changed in 2006.

Major changes in the document include: writing more specific language for student proficiencies; realigning the grade level and sequencing of some proficiencies and creating a new format which includes learning activities and supporting materials, common vocabulary and assessment columns.

The document follows the format of the NH State Frameworks by organizing the contents in the following six strands:

Strand 1: Number and Operations,

Strand 2: Geometry and Measurement,

Strand 3: Functions and Algebra

Strand 4: Data, Statistics, and Probability

Strand 5: Problem Solving, Reasoning, and Proof

Strand 6: Communication, Connections, and Representations

The NH Standards in **bold** are followed by the Oyster River Cooperative School District proficiencies for those standards. All standards and proficiencies preceded by a  $\sqrt{\quad}$  identify items that can be expected to be tested on the NECAP assessment.

The High School Mathematics Department has developed Mathematics Competencies for each subject as required by the NH DOE administrative rules (Ed 306.27). These course competencies are included in this final document. New Hampshire K-12 Mathematics Curriculum Frameworks, K-8 Grade Level Expectations and High School Grade Span Expectations can be found at:  
<http://www.ed.state.nh.us/education/doe/organization/curriculum/NECAP/GLEs.htm>.

The High School Mathematics Department has developed Mathematics Competencies for each subject as required by the New Hampshire Department of Education Administrative Rules (Ed 306.27). The competencies are saved on the shared folder in the high school and will be included here in the final document. New Hampshire High School Mathematics Grade-Span Expectations can be viewed at:  
[http://www.education.nh.gov/instruction/assessment/necap/documents/math\\_gse.pdf](http://www.education.nh.gov/instruction/assessment/necap/documents/math_gse.pdf)

In the three years since the K-12 Mathematics Curriculum was developed and distributed, teachers have had an opportunity to work with the document and discover strengths and weaknesses of the curriculum. During the 2009-2010 school year all teachers of mathematics maintained curriculum logs developed by the Mathematics Curriculum Committee detailing implementation of the mathematics proficiency standards for their grade level. This process provided a consistent and uniform format for teachers to record their experiences and observations while implementing the curriculum.

The logs were used to gather information about the implementation of each proficiency standard at each grade level. Factors that were reviewed included: the clarity and specificity of each proficiency; grade level appropriateness; proper sequencing; the number of proficiencies at each grade level and the resources and professional development needed to successfully implement the curriculum.

In August 2009 the committee met to analyze the logs, reexamine the curriculum and to make appropriate changes in light of the full year of evaluation. This revised edition of the K-12 Mathematics Curriculum is a result of this process.

The committee would like to thank all teachers of mathematics at Oyster River for their feedback and critical review while working with this curriculum. It is through this process that the K-12 Mathematics Curriculum continues to be a living, working document.