

MA 3124 : Mathematics 8

Mathematics 8 is a course for eighth grade students that extends concepts and skills from previous grades and prepares students for the more abstract concepts in algebra. The course focuses on the development of problem-solving skills and the acquisition of mathematical vocabulary and symbols. Facility in the use of technology will not be a substitute for students' understanding of quantitative concepts and proficiency in basic computations.

Subject Area

Mathematics

Level

Middle School

Parent Docs

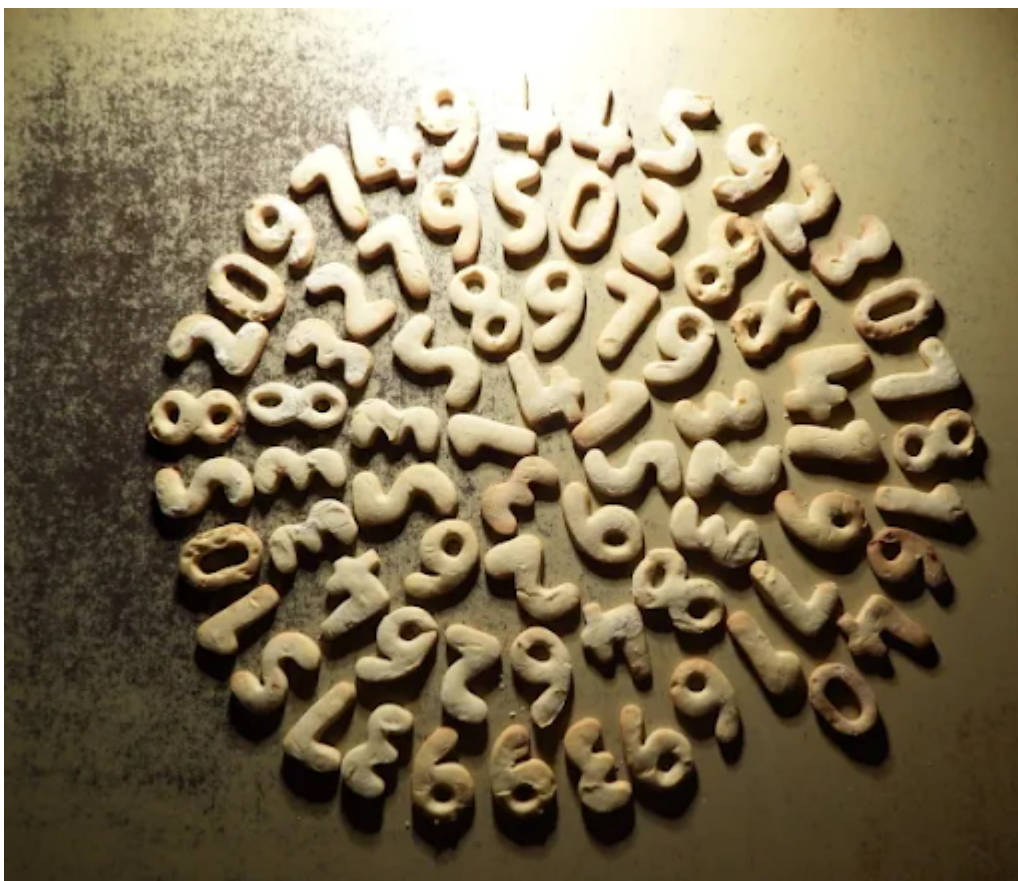
[Mathematics 8 Parent Doc 2021-2022](#)

Storyboard

Essential Questions: How do I become a mathematical problem solver to better understand the world around me?
In what ways can I communicate and represent my mathematical thinking?

Numeric and Algebraic Expressions: Neverending Numbers:

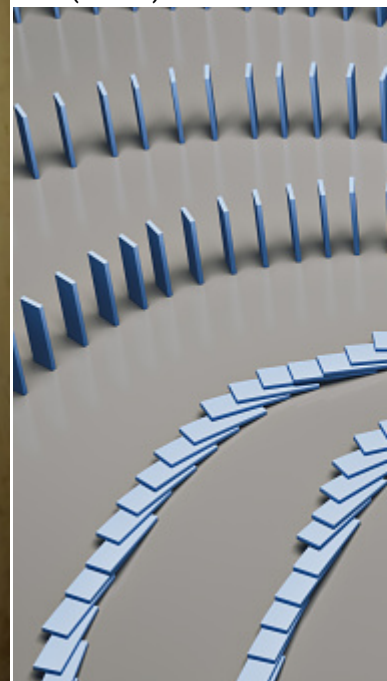
Unit 1 (5 weeks)



Title

Equations and Inequalities: Setting Up a D

Unit 2 (5 weeks)



	<i>How do I apply my current understanding of number sense to incorporate irrational numbers?</i>	<i>How do I apply previous knowledge of equations to build algebraic fluency?</i>
Focus of the Story	Our journey takes us into new territory leaving the comfort of rational numbers to explore the power of real numbers. This helps us expand our mathematical power to organize sets of numbers into subsets of the real number system.	We step up our game to build algebraic fluency.
Transfer Goals	<ul style="list-style-type: none"> • Apply: Utilize efficient strategies, processes, and tools to model new situations and/or real world experiences. • Explain: Communicate mathematical thinking by justifying solutions using multiple representations while attending to precision <p>I can describe, classify, and illustrate relationships among the subsets of the real number system.</p>	<ul style="list-style-type: none"> • Explain: Communicate mathematical thinking by justifying solutions using multiple representations while attending to precision.
Learning Targets	<p>I can determine square roots as having both positive and negative values.</p> <p>I can estimate the numerical value of square roots that are not perfect squares.</p> <p>I can compare and order real numbers.</p>	<p>I can solve and graph multi step equations.</p> <p>I can justify the mathematical plan and verify the solution.</p>