
ACE Math

3rd Grade Math
(M-T: 10:30-11:30) (W-Th: 10:30-11:30)

Instructor: Kathryn Seidel
E-Mail: kseidel@sd161.org
Phone: 647-7460

Course Description

In this class we will use 3 units from Project M³:Mentoring Mathematical Minds. Project M³ is a series of curriculum units that supports the Common Core State Standards for Mathematics and the Standards for Mathematical Practice. Each unit is designed to motivate, challenge, and engage mathematically talented students at the elementary level.

Objectives

Students will be able to:

- Identify arithmetic patterns and explain them using properties of operations.
- Generate a number or geometric pattern that follows a given rule and identify apparent features of the pattern that were not explicit in the rule itself.
- Make, explain, and justify generalizations that seem to always work in particular situations.
- Compare the relative sizes of fractions less than 1.
- Apply the concept of the identity for multiplication to renaming equivalent fractions.
- Identify and rename equivalent fractions and order fractions of all types including improper fractions and mixed numbers.
- Explore equivalent fractions using area models.
- Explore non-congruent pieces as equivalent parts of a whole.
- Find a variety of fractions that combine to make 1 whole.
- Explore a variety of contextual problems for multiplication and division of fractions and mixed numbers.
- Explain how the formula for volume of rectangular prisms, $V=lwh$, is connected to building layers of unit cubes
- Find surface area for the nets of boxes

Materials

- One notebook
- Red or blue ACE folder
- Awesome Algebra student workbook
- Treasures From the Attic: Exploring Fractions student workbook
- Designer Boxes: Exploring Volume and Surface Area Student workbook

Timeline:

- Awesome Algebra
 - September-December
- Treasures From the Attic
 - January- March
- Designer Boxes: Exploring Volume and Surface Area
 - March-June

ACE

Explore, Discover, Reveal

Course Description

This class will expose high ability students to exemplary works of literature that challenge their critical reasoning and nurture their search for meaning in an ongoing quest to understand themselves and those within their world. It provides opportunities for student learning in reading, writing, and oral communication.

Objectives

Students will be able to:

- Describe what a literary passage means.
- Cite similarities and differences in meaning among selected works of literature.
- Make inferences based on information in given passages.
- Develop a written persuasive paragraph.
- Apply standard English usage in written and oral context.
- Develop vocabulary power commensurate with reading.
- Evaluate the effective use of words, sentences, and paragraphs in context.
- Understand that exploration changes the perspective of the explorer.
- Illustrate how exploration links the past to the future.
- Categorize exploration as being internal or external.

3rd Grade Reading
(M-T: 1:00-2:00) (W-Th:
1:00-2:00)

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Materials

Students will need:

- One 1 ½ inch binder
- One package of notebook paper
- Explore, Discover, Reveal student text
- Red or blue ACE folder

Novel Timeline:

- September through December we will be reading *The Mixed Up Files of Mrs. Basil E. Frankweiler*.
- January through June we will be reading various novels and holding Literature Circles.