



4th-5th Grade Math Class Syllabus

Instructor Contact Information

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Course Description

This is a course for all students who enjoy math or who would like to improve their understanding of math concepts and problem solving skills. The course is extremely flexible, so don't worry if you think you are not "good" at math. Everyone is welcome. This class seeks to introduce and extend 4th and 5th grade math concepts (based on the Common Core State Standards Initiative), as well as to help students become more comfortable with solving unique sets of problems.

Class Outline

| Date | Time | Topics Covered |
|-------|-------------------|--|
| 12/19 | 5:15 PM - 6:00 PM | Multiplication (Algorithm)/ Factors + Exponents |
| 12/26 | 5:15 PM - 6:00 PM | Division (Algorithm) + Performing Operations with Fractions |
| 1/2 | 5:15 PM - 6:00 PM | Integers |
| 1/9 | 5:15 PM - 6:00 PM | Decimals |
| 1/16 | 5:15 PM - 6:00 PM | Counting + Basic Probability/ Shapes (Based on student interest) |

Prerequisites

It is recommended that students taking this course already know:

- A basic understanding of fractions
- A basic understanding of perfect squares
- Order of operations
- Addition and Subtraction
- Multiplication Tables up to 10x10

Needed Materials

Students are expected to bring the following materials with them to every class, unless otherwise indicated:

1. A positive attitude
2. Notebook
3. Pencil
4. Working camera & microphone
5. Camscanner (optional)

Classwork/Homework

Homework is optional, but students are encouraged to submit homework to demonstrate understanding of topics. Please make sure that students have access to a device to take a picture of their work and send it to me via my contact information.

Class Participation

I will try to keep this class as discussion-based as possible because I feel that this is the most interactive and engaging way to learn math. In order to make this class successful, it is expected that students turn on their cameras and actively interact with other students and the teacher during class time.

Office Hours

Students are encouraged to reach out anytime with questions using my email (provided below).

Or, I am open to meet one-on-one with students during my office hours:

Wednesdays 5:00-6:00 PM

Thursdays 4:00-5:00 PM

Saturdays 7:00-8:00 PM

During these times, I will keep the class Zoom meeting open for any students who have questions or need help with homework. I will also be available in the Zoom meeting 20 mins before and after classes to answer questions that students may have.

Learning Targets

At the end of this course, I can...

- ★ Multiply and divide large numbers using some form of algorithm
- ★ Break a number into prime factors
- ★ Perform operations with exponents
- ★ Perform operations with fractions (of same or different denominator)
- ★ Perform operations with negative integers
- ★ Perform operations with decimals (+/-)
 - Convert decimals to fractions (and vice versa)
 - Compare decimals
- ★ Use problem-solving strategies to solve interesting and unique sets of problems