Mrs. Heverly's
Math 180 Course Syllabus
8th Grade

Course Description

Math 180 is a math intervention program for grades 6+. It is designed to address the needs of struggling students. The program combines classroom support and adaptive software, providing personalized instruction and practice. Students will learn, practice, and review at their own pace, allowing for an instruction that reflects their strengths and weaknesses.

What Will I Learn in Math Class This Year?

- **Decimals**
- **Fractions**
- **Integers**
- **Rates and Ratios**

Course Objectives

- **Address Learning Gaps:** Identify and address learning gaps to help students progress toward grade-level curriculum.
- **Prepare for Algebra Readiness:** Provide necessary skills and knowledge for success in algebra and advanced mathematics.
- **Develop a Growth Mindset:** Encourage students to embrace challenges, learn from mistakes, and view learning as a growth process.
- **Utilize a Blended Learning Approach:** Combine teacher-led instruction with personalized learning software and activities to cater to various learning styles and paces.
- **Empower Self-Regulation:** Offer tools and strategies to help students set goals, monitor progress, and take ownership of their learning.

- <u>Foster Student Engagement:</u> Incorporate engaging activities, including videos, games, and interactive tools, to keep students motivated.

Required Materials

Provided:

- Math 180 textbooks (consumable book or online sheets)

Student Provided:

- Pencils
- Chromebook
- Positive Attitude :)

Grading Policy

★ Effort in Class
★ Graded assignments include:
  ○ Exit Tickets
  ○ Learn Zone Block (Software)
  ○ Success Zone Block (Software)
  ○ Unit Quizzes
★ Quizzes may be retaken to improve grades without penalty.

Class Policies and Expectations

- Treat others as you want to be treated.
- Come to class prepared every day.
- Be respectful at all times.
- Be kind.
- Always give your best effort.
- Complete the work.

Course Outline

- Decimals and integers
    - ❖ Understand the relationship of fractions and decimals.
    - ❖ Extend whole-number understanding of place value to decimals.
    - ❖ Extend understanding of the number system to decimals.
    - ❖ Apply meaning of place value and addition and subtraction to decimals.
    - ❖ Understand the relative magnitude of decimal products.
    - ❖ Apply understanding of place value and division to decimals.
    - ❖ Extend understanding of the number system to positive and negative numbers.
    - ❖ Extend understanding of addition to positive and negative numbers. ○ Extend understanding of subtraction to positive and negative numbers.

- Rates and ratios

    - ❖ Develop strategies to represent the motion of an object in different ways.
    - ❖ Represent the relationship between distance and time using a table.
    - ❖ Use understanding of graphs to make comparisons.
    - ❖ Understanding the meaning of constant rate in terms of constant, correlated change in two quantities.
    - ❖ Understand ration as a multiplicative relationship between two quantities. ○ Understand equivalent ratios.
    - ❖ Understand different representations of equivalent ratios.
    - ❖ Use ratio understanding to solve problems and make comparisons.
    - ❖ Understand percent as a number.

<u>Rubric Format</u>

- Effort: Consistent participation and engagement in class activities.
- Assignments: Completion and quality of graded assignments.
- Improvement: Demonstration of growth through retakes and feedback.

<u>**This syllabus is designed to guide students and families throughout the Math 180 course and ensure a successful year of learning.**</u>