6th Grade Math Course Syllabus

Course Description

Welcome to 6th Grade Math! This course is designed to build a solid foundation in mathematical concepts that will prepare students for more advanced topics in future grades. Throughout the year, we will explore key areas such as number sense, fractions, decimals, ratios, geometry, algebraic thinking, and data analysis. Students will engage in problem-solving, critical thinking, and collaborative activities to deepen their understanding and improve their mathematical skills.

Course Objectives

By the end of the year, students will:

- Develop a strong understanding of ratios, rates, and proportional relationships.

- Apply arithmetic operations with multi-digit whole numbers, fractions, and decimals.

- Explore the concepts of variables, expressions, and simple equations in algebraic thinking.

- Analyze geometric shapes, and calculate area, surface area, and volume.

- Interpret and display data using various graphical representations.

- Strengthen problem-solving skills through real-world applications.

Required Materials

- Notebook (for interactive notebook assignments)

- Graph paper

- Pencils and erasers

- Chromebook

Grading Policy

Grades will be based on daily classwork, quizzes, unit tests, and projects. Students must complete assignments on time and actively engage in classroom discussions and activities.

- **District Assessments:** 40% weight (2 per 9-weeks)

- **Daily Class Assignments:** 60% weight (2 class assignments per week will be graded)

Class Policies and Expectations

Students must arrive in class ready to learn, with all necessary materials. Active participation, respect for others, and a growth mindset are encouraged to foster a positive and productive learning environment.

6th Grade Classroom Norms

- Treat others with respect.

- Be organized & prepared to participate.

- Be considerate of the learning environment.

- Keep hands, feet, and objects to yourself.

- Always be honest & show integrity.

- Follow directions and stay on task.

- Be kind & use school-appropriate language.

- Do everything with Excellence.

6th Grade Classroom Discipline Steps

1. **Verbal Warning:** A reminder of expectations.

2. **Documented Warning (Infraction Slip):** A formal record of the behavior issue.

3. **Teacher Detention:** A short time to reflect on behavior.

4. **Action Plan / Counselor Referral:** Collaborative strategies to address ongoing issues.

5. **Parent Contact:** Communication regarding significant concerns.

6. **Office Referral:** Involvement of school administration for continued infractions.

Fighting, harming another student, and extreme cases of disrespect (at teacher/administrator discretion) will result in an immediate office referral.

Policies

Missing Homework or Assignments

Students will have one week maximum to turn in late or missing assignments with a 10-point late penalty for every day it is late.

Getting Assignments

Weekly assignments are posted on Google Classroom and written on the whiteboard.

Excused Absence Make-up Assignments

Students will check the day of the week in the file folder and gather any handouts for the days they missed. They will copy down any assignments listed on the board and copy instructions from classmates if needed. They will sign the classwork log after getting the classwork copies and writing down assignment instructions. The classwork log should be signed the first day they return. (There are no makeups for unexcused absences.) Students will have 3 days from the return date to submit makeup assignments unless otherwise stated by the teacher. It is the student's responsibility to request make-up work if no assignments are in folder.

Make-up Test Procedure

Make-up tests will be given during the next available Art, Music, Guidance, STEM, or PE block.

Course Schedule Overview

Weeks 1-5; 1st 9-weeks (8/6-9/6)

- Find the greatest common factor (GCF) and least common multiple (LCM) of two or more whole numbers.

- Use the distributive property to express sums.

- Write, evaluate, and compare expressions involving whole number exponents.

Weeks 6-9; 1st 9-weeks (9/9-10/4)

- Fluently divide multi-digit whole numbers.

- Add, subtract, multiply, and divide decimals.

Weeks 1-5; 2nd 9-weeks (10/7-11/8)

- Represent proportional relationships and use ratio language.

- Solve problems using ratio and rate reasoning.

Weeks 5-9; 2nd 9-weeks (11/12-12/18)

- Describe signed numbers and locate them on a number line.

- Compute quotients of fractions.

Weeks 1-4; 3rd 9-weeks (1/8-2/7)

- Analyze relationships between quantities.

- Identify pairs of integers on the coordinate plane.

Weeks 5-9; 3rd 9-weeks (2/10-3/7)

- Write, evaluate, and compare expressions.

- Solve equations and inequalities.

Weeks 1-4; 4th 9-weeks (3/10-4/17)

- Calculate areas of polygons.

- Determine surface area of three-dimensional figures.

Weeks 5-9; 4th 9-weeks (4/21-5/21)

- Represent and analyze statistical questions and numerical data.

This syllabus is designed to provide clarity and structure for the 6th Grade Math course, ensuring that students and families understand the expectations and objectives for the year. Please keep this document for reference throughout the course.