

Jefferson Elementary School

5th Grade Mathematics Syllabus

Mrs. Sarah Johnson - Room 205

School Year 2024-2025

Contact Information

Teacher: Mrs. Sarah Johnson

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Phone: (555) 123-4567

Room: 205

Office Hours: Monday-Friday 3:15-4:00 PM

Course Overview

This course is designed to build upon 4th grade mathematical concepts and prepare students for middle school mathematics. Students will develop fluency with whole number and decimal operations, understand fraction concepts, and explore basic geometry and data analysis.

Grade Level: 5th Grade

Subject: Mathematics

Duration: 11 weeks (September 3 - November 1, 2024)

Class Period: 9:00 AM - 10:15 AM, Monday through Friday

Class Size: 24 students

Learning Objectives

By the end of this course, students will be able to:

- Perform operations with multi-digit whole numbers and decimals
- Add, subtract, multiply, and divide fractions
- Understand place value to the millions place
- Solve real-world mathematical problems using various strategies
- Interpret and create graphs and analyze data

- Calculate area, perimeter, and volume of basic shapes
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Course Schedule and Topics

First Quarter (September 3 - November 1, 2024)

Week 1: Place Value and Number Sense (millions place, rounding, comparing large numbers)

Week 2: Whole Number Operations (multi-digit multiplication and division)

Week 3: Order of Operations (PEMDAS, solving complex expressions)

Week 4: Factors and Multiples (prime/composite numbers, finding GCF and LCM)

Week 5: Introduction to Fractions (equivalent fractions, simplifying, comparing)

Week 6: Adding and Subtracting Fractions (like and unlike denominators)

Midterm Exam: October 15, 2024

Week 7: Multiplying Fractions (fractions by whole numbers and fractions)

Week 8: Dividing Fractions (unit fractions and simple division)

Week 9: Introduction to Decimals (place value to thousandths, comparing decimals)

Week 10: Decimal Operations (adding, subtracting, multiplying decimals)

Week 11: Review and Problem Solving (real-world applications)

Final Exam: October 30, 2024

Assessment Methods

- **Daily Assignments:** 25%
- **Weekly Quizzes:** 20%
- **Monthly Tests:** 25%
- **Midterm Exam:** 15%
- **Final Exam:** 15%

Grading Scale

- A: 90-100%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: Below 60%

Assignment Schedule

- **Daily Practice Problems:** Due next class day
 - **Weekly Problem Sets:** Due every Friday
 - **Math Journal Entries:** Due every other Wednesday
 - **Project-Based Assessments:** Announced 2 weeks in advance
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Classroom Expectations

1. Come to class prepared with materials
 2. Participate actively in discussions
 3. Show all work on assignments
 4. Ask questions when confused
 5. Respect classmates and teacher
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Required Materials

- Math textbook: "Everyday Mathematics Grade 5"
 - Calculator (basic four-function)
 - Ruler and protractor
 - Graph paper
 - Composition notebook for math journal
 - Pencils and erasers
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Parent Communication

- **Progress Reports:** Sent home every 4 weeks
 - **Parent-Teacher Conferences:** October 15-17 and March 10-12
 - **Classroom Website:** Updated weekly with assignments and announcements
 - **Email Updates:** Sent as needed for important information
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Additional Support

- **Tutoring:** Available Tuesdays and Thursdays 3:15-4:00 PM
 - **Math Lab:** Open during lunch period for extra practice
 - **Online Resources:** Khan Academy, IXL Math (class codes provided)
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Special Events and Projects

- **Math Night:** November 15, 2024
 - **Geometry Art Project:** February (specific date TBA)
 - **Data Collection Project:** April 2025
 - **Math Olympics:** May 8, 2025
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This syllabus is subject to change. Any modifications will be communicated in advance.

Please sign and return the attached acknowledgment form by September 10, 2024.