



**BEREA MIDDLE SCHOOL**  
151 Berea Middle School Road | Greenville, SC | 29617  
P: (864) 355-1700 | F: (864) 355-1777



# Math 8 – Justice Danku

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**Phone:** 355-1723      **Email:** [jdanku@greenvilleschools.us](mailto:jdanku@greenvilleschools.us)      **Room:** 904

**Google Classroom :** Access through students backpack/Classlink

**Textbook/Resources:** McGraw Hill – South Carolina Middle School Math Course 3

**Additional Resources:** ALEKS, Spiral Review Folder

## Berea Middle School Mission

Berea Middle School will provide an environment that balances love, support, and accountability, so that students are empowered to reach their fullest potential.

## Course Description

Math 8 is designed to deepen students' understanding of mathematics through problem solving, reasoning, and real-world application. Students will explore concepts in geometry, algebra, functions, statistics, and number systems while developing the skills needed for high school math and beyond. Throughout the year, students will:

- Analyze congruence and similarity in geometric figures.
- Represent and solve problems involving linear relationships and equations.
- Understand and apply the concept of a function to describe quantitative relationships.
- Investigate patterns of association in data.
- Apply the properties of angles, triangles, and the Pythagorean Theorem.
- Solve real-world problems involving volume.
- Work with irrational numbers, integer exponents, and scientific notation.

**Brianna Falvey, Principal**  
**Work hard. Be kind.**

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**Vision:** Berea Middle School will be an academic site of distinction where college and career readiness skills are prioritized and all students have opportunities to access real-world activities and experiences.

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## General Learning Objectives

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

1. Apply properties of congruence and similarity to solve geometric problems.
2. Represent, analyze, and solve problems using linear equations and systems of equations.
3. Understand, describe, and compare functions using multiple representations.
4. Interpret and analyze data to identify patterns of association.
5. Use geometric relationships and the Pythagorean Theorem in problem solving.
6. Calculate and apply formulas for the volume of cones, cylinders, and spheres.
7. Extend the number system to include irrational numbers and apply the rules of integer exponents.
8. Apply scientific notation to represent and operate with very large and very small numbers.

## Course Outline

The course is organized into the following units:

- Math is... – Building classroom culture and engaging with mathematical thinking.
- Congruence and Similarity – Transformations, scale drawings, and properties of similar figures.
- Linear Relationships and Equations – Representing, analyzing, and solving linear equations and inequalities.
- Understanding and Analyzing Functions – Describing, comparing, and representing functions in various forms.
- Patterns of Association – Interpreting data, scatter plots, and lines of best fit.
- Angles, Triangles, and the Pythagorean Theorem – Angle relationships, triangle properties, and right triangle problem solving.
- Volume – Calculating and applying volume formulas for three-dimensional shapes.
- Irrational Numbers, Exponents, and Scientific Notation – Extending the number system, working with exponents, and applying scientific notation.
- Test Preparation and Review – Revisiting key concepts and practicing problem-solving strategies.
- Math is... (Wrap-Up) – End-of-year activities and applications to maintain mathematical skills.

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## Berea Middle School Late Work and Retake Policies

### Make-Up Work

In order to receive full credit for make-up work, all work must be submitted within five school days immediately following the absence. In cases of prolonged illness beyond five days, special consideration will be given. It is the responsibility of the student, not the teacher, to arrange for make-up work. After the five-day deadline, work will be considered late. Work assigned before the absence or field trip will be due the day the student returns. Tests assigned before the absence will be taken on the scheduled test date or on a date arranged with the teacher. If a student misses a test or quiz while absent, on the first day back, arrangements should be made with the teacher to make up the assessment within five days. Ideally, work is made up before or after school to avoid missing additional class time. Students are expected to check teacher websites and Google Classrooms for assignments during any absence.

### Make-Up Work Deadlines

Assignments must be turned in on or before the following dates:

- 1st Quarter: By October 3, 2024 (one week before end of quarter – Oct 10)
- 2nd Quarter: By December 12, 2024 (one week before end of quarter – Dec 19)
- 3rd Quarter: By March 6, 2025 (one week before end of quarter – Mar 13)
- 4th Quarter: By May 15, 2025 (one week before end of quarter – May 22)

Any work assigned during the last week of the quarter will be accepted through the end of the quarter.

### Late Work Policy

Students are expected to turn in all assignments and should never have a Not Handed In (NHI) recorded in the grade book. Late work will be accepted during the unit of study or within five days after the unit ends. Points will not be deducted for late work. Opportunities to make up work may be offered during before- or after-school tutoring, OnTrack Time, or other times designated by the teacher.

### Retake Policy

Students may retake or redo major tests only. Students must initiate the request to retake within five days of receiving the grade. Only one retake is allowed per test, and the student must submit a formal email request explaining the reason for the retake. The higher grade will be recorded in the grade book.

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## Classroom Guidelines and Expectations

1. Only behavior that does not interfere with other students' right to learn is permitted.
  2. Be respectful to classmates and teachers.
  3. Be seated with materials and ready to work when class begins.
  4. Food, gum, and drinks (except water) are not allowed in classrooms or hallways.
- All students should also follow all district and school guidelines as outlined in the student handbook.

## Materials

- Notebook
- Pens/Pencils
- Charged Laptop
- Highlighter

## Grades

Tests & Major Projects: 50%

Quizzes, Minor Projects, and Assignments: 50%

## Grading Scale

- A: 90–100  
B: 80–89  
C: 70–79  
D: 60–69

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