

Coon Rapids-Bayard Community School District

7th Grade Mathematics

Mrs. Royer

Course Description:

In Grade 7, math focuses on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.

Course Expectations:

Ratios and Proportional relationships

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

The Number System

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

Expressions and Equations

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

Geometry

- Draw, construct and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

Statistics and Probability

- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Textbooks and Materials:

Online textbook (pearsonsuccessnet.com) is provided through username and password.

Web tools used extensively, with usernames and passwords provided.

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Grading Plan:

Grades are based on the point system- no weighting of any item. There are daily assignments, clicker assignments, projects, tests/quizzes, and labs.

Grading Scale:

A	90-100
B	80-89
C	70-79
D	60-69
F	59 or Below

Course Policies:

Student Work: Students will be expected to complete assignments outside of class time on a regular basis. All students are expected to read class material, think critically and write effectively. Students are expected to use complete sentences, proper grammar and correct spelling in every written performance..

Group Activities: Sometimes, you will be working in groups. Your group will be given cooperative learning activities to complete. You will be expected to be an active member of your group and participation points will be assessed accordingly. You will always be graded as an individual; however your group may earn points together that will lead to a reward.

Absences: If a student is absent, it is HIS/HER responsibility to get the material and assignment from my teacher website.

Class Rules:

- Be prompt
- Be prepared
- Be productive
- Be respectful
- Be a problem solver

Class Materials:

Daily bring your planner, pencil, checking pen, notebook, and a free reading book.