

Coon Rapids-Bayard Community School District

6th Grade Mathematics

Mrs. Royer

Course Description:

In Grade 6, math focuses on four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking.

Course Expectations:

Ratios and Proportional relationships

- Understand ratio concepts and use ratio reasoning to solve problems.

The Number System

- Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Apply and extend previous understandings of numbers to the system of rational numbers.

Expressions and Equations

- Apply and extend previous understandings of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations and inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.

Geometry

- Solve real-world and mathematical problems involving area, surface area, and volume.

Statistics and Probability

- Develop understanding of statistical variability.
- Summarize and describe distributions.

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:

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| 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.