

Welcome to My Class



Teacher Name: Beth Cummins

Grade Level: 6th

Subject Area: Math

Team Name: Mountaineers

Email Address: beth.cummins@cms.k12.nc.us

Website:

<https://sites.google.com/cms.k12.nc.us/cumminsmath/home>

Google Voice Number (text): 980-263-9432

Class Overview

Math 6 Course Description

The curriculum for this aligns with the NC Standard Course of Study and follows Common Core Standards which may be viewed at the NC Department of Public Instruction website.

- **Ratios and Proportional Relationships (RP):** Understand ratio concepts and use ratio reasoning to solve problems.
- **The Number System (NS):** 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 (EE):** 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 (G):** Solve real-world and mathematical problems involving area, surface area, and volume.
- **Statistics and Probability (SP):** Develop an understanding of statistical variability. Summarize and describe distributions.

Math 6 Honors/Cambridge Course Description

In addition to the 6th grade curriculum standards, honor classes will learn 7th grade standards as well.

- **Ratios and Proportional Relationships (RP):** Analyze proportional relationships and use them to solve real-world mathematical problems.
- **The Number System (NS):** Apply and extend previous understandings of operations with fractions to add, subtract, multiply and divide rational numbers.
- **Expressions and Equations (EE):** Use properties of operations to generate equivalent expressions. Solve real-life mathematical problems using numerical and algebraic expressions and equations.
- **Geometry (G):** 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 (SP):** 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.

Course Materials

Course Materials
REQUIRED FOR USE IN MATH:

1. Math spiral notebook (4 - one per quarter)
2. Open Up workbook (students will be given these with each unit)
3. Pencils
4. Two pocket folders
5. Highlighters
6. Glue sticks/ tape
7. Loose leaf paper
8. Earbuds for the Chromebooks

DONATIONS - IF POSSIBLE:

1. Tissues
2. Hand sanitizer
3. Clorox Wipes

Classroom Expectations:

- Arrive to class on time
- Come prepared ready to learn and be engaged in the daily lesson
- Complete all required assignments
- Use appropriate language and behavior at all times

Grading: CMS has set the following District Grading Policy. The grading scale is as follows:

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

Grade Categories	<p>Prepare 20% <i>Homework, warm-ups, exit tickets, smaller checks for understanding</i></p> <p>Rehearse 30% <i>Quizzes, labs, mini-assessments, mini-projects, classwork</i></p> <p>Performance 50% <i>Unit assessments, common assessments, performance tasks, writing assignments, projects with rubrics, labs, speeches</i></p>
Late Work Policy	<p>2 points per day/ 10 points per week Late assignments will be accepted until one week (5 school days) after the "Perform" date.</p>
Retest Policy	<p>Performance assessments (not projects or writing assignments) can be retaken.</p>
Absences	<p>If students are absent, please refer to Canvas for assignments.</p>

PowerSchool:

Parents are asked to keep up with their child's grades via PowerSchool. If you are in need of a PowerSchool login please email tracy.russell@cms.k12.nc.us

Canvas:

Canvas will be used for assignments this year.

Canvas Instructions

[Canvas Tips for Parents](#)

[Canvas Tips for Students](#)

[Technology One Pager](#)

Calendar at A-Glance - Math 6

Month	Unit	Overview	Standards
August & September	1 Fraction Division and Base Ten Arithmetic *Begin Unit 2	In this unit, students examine how the relative sizes of numerator and denominator affect the size of their quotient when numerator or denominator (or both) is a fraction. Students will also compute sums, differences, products, and quotients of multi-digit whole numbers and decimals, using efficient algorithms.	6.NS.1 6.NS.2 6.NS.3 6.EE.3
October	2 Area, Surface Area and Scale Drawings *Begin Unit 3	In this unit, students will build on their knowledge of geometry and geometric measurement to produce formulas for the areas of parallelograms and triangles, using these formulas to find surface areas of polyhedra. Students will also study scaled copies of pictures and plane figures, then apply what they have learned to scale drawings, e.g., maps and floor plans.	6.G.1 6.G.2 6.G.4 6.EE.1 6.NS.1 7.G.1
November	3 Ratios, Unit Rates and Percentages	In this unit, students deepen their understanding of ratios, scale factors, unit rates (also called constants of proportionality), and proportional relationships, using them to solve multi-step problems that are set in a wide variety of contexts that involve fractions and percentages.	6.RP.1 6.RP.2 6.RP.3 6.RP.4
December	4 Expressions and Equations	In this unit, students learn to understand and use the terms “variable,” “coefficient,” “solution,” “equivalent expressions,” “exponent,” “independent variable,” and “dependent variable.” Students will explore the concept of equations, showing how to determine an unknown value by substitution and extending that to determine rules about inverse operations for one-step equations.	6.EE.B.5 6.EE.B.6 6.EE.B.7 6.EE.A.1 6.EE.A.2.a 6.EE.A.2.c 6.EE.A.3 6.EE.A.4, 6.EE.C.9 6.NS.B.3 6.RP.A.3.b 6.RP.A.3.c
January	5 Proportional Relationships and Percentage Situations	In this unit, students will learn to use ratios, scale factors, unit rates (also called constants of proportionality), and proportional relationships to solve multi-step, real-world problems that involve fractions and percentages.	7.G.1 7.RP.1 7.RP.2 7.RP.3 7.NS.2

February	6 Rational Numbers	In this unit, students are introduced to signed numbers and plot points in all four quadrants of the coordinate plane for the first time. They work with simple inequalities in one variable and learn to understand and use “common factor,” “greatest common factor,” “common multiple,” and “least common multiple.”	6.NS.4 6.NS.5 6.NS.6 6.NS.7 6.NS.8
March	7 Data Sets and Distributions	In this unit, students learn about populations and study variables associated with a population. They understand and use the terms “numerical data,” “categorical data,” “survey” (as noun and verb), “statistical question,” “variability,” “distribution,” and “frequency.” They make and interpret histograms, bar graphs, tables of frequencies, and box plots. They describe distributions (shown on graphical displays) using terms such as “symmetrical,” “peaks,” “gaps,” and “clusters.” They work with measures of center—understanding and using the terms “mean,” “average,” and “median.” They work with measures of variability—understanding and using the terms “range,” “quartile,” and “interquartile range” or IQR. They interpret measurements of center and variability in contexts.	6.SP.1 6.SP.2 6.SP.3 6.SP.4 6.SP.5
April	8 Rational Number Arithmetic and More Equations	In this unit, students learn about populations and study variables associated with a population. They understand and use the terms “numerical data,” “categorical data,” “survey” (as noun and verb), “statistical question,” “variability,” “distribution,” and “frequency.” They make and interpret histograms, bar graphs, tables of frequencies, and box plots. They describe distributions (shown on graphical displays) using terms such as “symmetrical,” “peaks,” “gaps,” and “clusters.” They work with measures of center—understanding and using the terms “mean,” “average,” and “median.” They work with measures of variability—understanding and using the terms “range,” “quartile,” and “interquartile range” or IQR. They interpret measurements of center and variability in contexts.	6.SP.1 6.SP.2 6.SP.3 6.SP.4 6.SP.5
May	Review for E.O.G		

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Now that you have read the syllabus, please complete the following form WITH your parents:

[Syllabus Agreement Form](#)