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John Muir School TK-12
Building Global Citizens

CC 6ᵗʰ Grade Math & Step Up Syllabus

Course Description
Students will begin their exploration and development of their understanding of algebra and geometry concepts. The next three years will be the needed foundation of their mathematical knowledge for all high school math.

Objectives
Students will be able to. . .
a. Connect ratio, rate, and percentage to whole number multiplication and division
b. Use concepts of ratio and rate to solve problems
c. Complete understanding of division of fractions; including rational and negative numbers
d. Write, interpret and use expressions and equations
e. Develop understanding of statistical thinking

Course Overview:
Textbook: Big Ideas Math Course 1: A Common Core Curriculum
Website: https://clever.com/in/sdusd/

Semester 1

Numerical Expressions and Factors
- Compute fluently with multi-digit numbers
- Find common factors and multiples
- Apply understanding of arithmetic to algebraic expressions

Fractions and Decimals
- Interpret and compute quotients of fractions
- Solve word problems involving division of fractions
- Fluently add, subtract, multiply, and divide multi-digit decimals

Algebraic Expressions and Properties
- Write, read and evaluate expressions in which letters stand for numbers
- Apply properties of operations to general equivalent expressions
- Identify when two expressions are equivalent

Areas of Polygons
- Find the area of triangles, special quadrilaterals, and polygons
  * composing into rectangles
  * decomposing into other shapes
- Draw polygons in the coordinate plane, given coordinates

Ratios and Rates
- Understand the concept of ratio
- Use ratio language to describe a relationship between two quantities
- Understand the concept of unit rate
- Use unit rate and rate reasoning to solve real-world and mathematical problems

Semester 2

Integers in the Coordinate Plane
- Understand that positive and negative numbers describe quantities having opposite directions or values
- Represent quantities in real-world contexts and in the coordinate plane

Equations and Inequalities
- Reason about and solve one-variable equations and inequalities
- Write an inequality to represent a constraint or condition in a real-world or mathematical problem
- Write an equation in two variables

Surface Area and Inequalities
- Represent 3-D figures using nets
- Find the surface area and apply these techniques to solve real-world and mathematical problems
- Find the volume of rectangular

Statistical Measures
- Recognize a statistical question as one that anticipates variability in the data
- Describe the distribution of a set of data by its center, spread and overall shape
- Summarize data sets in relation to their context

Data Displays
- Display numerical data in plots on a number line, including dot plots, histograms, and box plots
- Relate the choice of measure of center and variability to the shape of the data and the context in which it was gathered

Recommended Supplies
Having the necessary supplies is instrumental.
If you cannot provide these supplies, please let me know and I will provide them for your child.

3 ring binder (1 inch or more)
3 hole punch lined paper
3 divider tabs for math

Pencils and erasers
Independent Reading Book

Classroom Expectations
- ➤ Follow ALL directions first time asked
- ➤ Be in your seat and prepared to work
- ➤ Do NOT disrupt the learning of others
- ➤ Keep all hands, feet and confrontational comments to themselves
- ➤ Follow all district, school and classroom rules and policies
- ➤ Keep "our" classroom clean
- ➤ NO electronics allowed on during class time

Consequences
- ➤ Warning/time-out at teacher discretion
- ➤ Detention (time determined by teacher) and parent phone call
- ➤ Additional detention (time determined by teacher) and parent phone call
- ➤ Referral, parent/team conference, or parent shadow

Anything of a serious or violent nature, a zero-tolerance infraction, or any on-going or severe problem will result in immediate referral to the counselors and/or principal with possible suspension or expulsion from Muir.
Bullying will not be tolerated!! For more information about SD Unified School District policies, please visit https://www.sandiegounified.org/anti-bullying-information-parents

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Grading Policy and Procedures

Academic Grading Scale:
A – 90 – 100%
B – 80 – 89%
C – 70 – 79%
F – below 70%

Citizenship Grading Scale
Citizenship is based on the student following Muir and class rules; arriving on time, exhibiting a willingness to learn, participating in class activities, working well with peers and demonstrating courteous and respectful behavior towards peers, teachers and the classroom.

In order to meet the A-G requirements established by the Universities of California and the CA State Universities, students must earn a "C" or better and therefore "D" will not appear in the grading scale.

Notebook Logs (3 ring binder)

You will be required to bring your 3-ring binder, independent reading book and a pencil to class every day.
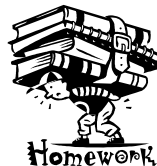We will be adding assignments to your binder on a daily basis and failure to bring it will result in a lowering of your grade. It is <u>VERY IMPORTANT</u> that you update your Table of Contents as you enter the classroom. Notebook logs will be due at the end of every unit and will include all notes, class activities, and homework for the unit.

Notes/Class Activities – 30%

In class, you will be required to actively participate in the daily activity. This will include, but it not limited to notes, group and individual problems, class activities, and labs.

Homework – 10 %

Homework is a reinforcement of the days' activity. I will try to allow some class time to start homework to ensure that there are no questions. Completed homework will be stamped the day it is due.

Performance Evaluations – 60 %
There will be a test at the end of each unit and occasionally a quiz in the middle of longer sections.
We will be completing projects throughout the year to test your understanding of key concepts.
ALL homework must be completed to retake any tests or quizzes.

Late/Make Up Work Policy
NO late work will be accepted <u>after the unit test is taken</u>. If the notebook log is turned in on the day of the test, you will have an opportunity, after grading, to correct or redo most assignments for 75% of the original grade. All make-up work must be done at lunch or BEFORE/AFTER school and turned in before the unit test.

Absences
Being absent does **NOT** excuse you from the assignments missed. Upon returning, it is your responsibility to update your Table of Contents and complete missed assignments. These assignments must be done by the next quiz or test and included in your notebook log. Any missed quizzes or tests must be made up at lunch, before/after school, see me to make arrangements.

Help Sessions:
Everyday at lunch   -   Monday & Tuesday: After School   -   Before School by appointment
Please check front white board in the classroom for any changes.
*These sessions are for students to make-up work, tests, or redo incomplete packets…
if work is turned in on time students are allowed to redo select assignments from the previous unit up until the next unit test.
Please feel free to contact me with any concerns or question you may have regarding my class.
The best way to reach me is by the e-mail aschu@sandi.net.
I look forward to working with you to help your child have a successful year in my class.