

June 2021

Dear Middle School Families,

Summer (finally!) is here and we hope you and your student are able to spend some restful and relaxing (off-screen) time together. However, we also want to make sure that our students retain the valuable math skills that they have learned this year. With that in mind, we have created a math review assignment to prepare your student for their next course of study.

According to the National Association for Summer Learning, students, on average, lose approximately two months of grade-level math skills during the summer if they do not participate in educational activities. The time lost becomes critical as students enter more rigorous math classes in middle and high school.

The favored approach for this assignment is to spread it out over the summer, as we want students to return in August with a strong foundation for their next math course. Completing the entire summer assignment in June can make this transition back to school more challenging. Our goal is for students to complete the assignment as independently as possible.

The Middle School Math Department has curated a list of resources for students that provide both enrichment and remediation for support over the summer. We hope that you will find these resources useful, and will use them in whatever capacity works best for your student.

You will find the math assignment attached as a PDF. Please be sure that your student completes the appropriate assignment (clarification below). Students may complete this digitally or in hardcopy format. We highly recommend reading the instructions together with your student. In total, the assignment is designed to show approximately ten hours of work. This assignment will be graded on completion and work shown in the first quarter of the 2021-2022 school year.

Have a wonderful and well-deserved summer!

Best,

Claire Bukata

6-12 Math Department Co-Chair

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Assignment Clarification. Please be sure that your student completes the appropriate assignment.

All Rising 6th grade students (students who have just completed 5th grade)- Complete Rising 6th Summer HW

Rising Pre-Algebra students (students who have just completed 6th grade math at SD, and **new students entering 7th grade**)-Complete Rising Pre-Algebra HW

Rising Algebra students (students who have just completed Pre-Algebra at SD, and **new students entering 8th grade**)- Complete Rising Algebra HW

Rising Geometry students (students who have completed 7th grade Algebra **only**)- Complete Rising Geometry HW

Math Resources

Your past math materials! Maybe you have all of your notes saved on notability, or your math notebook from the year. These can both be very useful if you need support reviewing a specific topic.

Khan Academy-Students can **PREVIEW** the “next course” in their math sequence. Students will need a current email address in order to sign up. Many students may already have an account set up.

- Math by grade- 6th grade
- Math by Course-Pre-Algebra, Algebra 1, Geometry
- Math: Get Ready Courses- Get ready for 6th Grade, Get Ready for 7th Grade, Get Ready for 8th Grade, Get Ready for Algebra 1, Get Ready for Geometry

Khan Academy-Students can **REVIEW** the course that they have recently completed in their math sequence. Students will need a current email address in order to sign up. Many students may already have an account set up.

- Math by grade- 6th grade, 5th Grade
- Math by Course-Pre-Algebra, Algebra 1
- Looking for more? The Foundations Courses run by Eureka Math/ EngageNY also provide rigorous review by grade level
- Need general support? Type in the heading of the section(s) you are stuck on, and search once you are on the Khan Academy Website (Top left banner with magnifying glass)

The Importance of developing a Growth Mindset- How to Learn Math, by Jo Boaler of Stanford University, youcubed.org/online-student-course/

A free online class for students. (6 sessions, 10-20 minutes per session) It combines information on the brain and learning with new evidence on the best ways to approach and learn math effectively. The course will correct any misconceptions they have about what math is, and it will teach them about their own potential to succeed and the strategies needed to approach math effectively.

Youcubed at Home, modified versions on Youcubed math tasks that are more home-friendly, youcubed.org/resource/youcubed-at-home/

Polyup, polyup.com, a free computational thinking playground. Modify expressions, functions, and algorithm to discover the beauty of math

Math TV, mathtv.com, the “netflix” of online learning, free math videos covering a wide variety of topics from 34 different math tutors

Relevant Courses- Math Fundamentals, Elementary Algebra, Intermediate Algebra