



MATH REIMAGINED

DISCOVERING MATHEMATICS

**CLASS FOR GIRLS BY GIRLS - NO EXPERIENCE
NECESSARY!**

We invite all 3rd to 5th grade girls and non-binary individuals to participate in a free math class covering math not taught at school. We will help prepare students for math competitions like the AMC 8 and MATHCOUNTS, or simply open your eyes to a different side of math. If you like math or rather stay away from it, we hope to make it much more interesting to you!





Who are we?

Math Reimagined is a nonprofit dedicated to making math education more accessible to girls.



Mission Statement

Math Reimagined emphasizes interactive learning to promote the involvement of girls in math. We encourage girls and non-binary individuals to pursue their passion for mathematics through virtual tutoring, weekly classes, and the creation of an accepting and boundless space. Our goal is to reach elementary and middle school girls all over Missouri and introduce them to areas of math that are not typically taught in schools.

For information on the founders, go to their website:
www.mathreim.org

LET'S MAKE MATH FUN!

At Math Reimagined, our goal is to provide all girls with free, accessible, and interactive math education.

We plan to divide our FIRST class in the following way:

Activity	Description	Start time
Introduction	Talk about Math Reimagined, the format of the class, and the syllabus!	3:00-3:10
Activity!	Introduce yourselves!	3:10-3:25
Interactive lesson	Talk about our impressions on mathematics as a whole and what we would like to get out of the class. We will also talk about the history of women in STEM. <ul style="list-style-type: none">• What have our experiences been like?• What do we already know in math, and what would we like to learn?• Who are some women you have heard/know that you look up to in STEM?	3:25-3:45
Small groups	Collaborative brain teaser. Problem-based learning: mathleague.org , AMC 8, MATHCOUNTS problems <ul style="list-style-type: none">• 15 minute break in the middle (Questions will be easier OR harder depending on what the group wants! We will also do problems as a team with more interactive/visual methods of learning to increase community building.)	Break from 3:45-4:00 Do problems together from 4:00 to 4:30.
Activity!	Would you rather? (Or activity of their choice! We could also just talk for a bit about school, math, or whatever seems necessary.)	4:30-4:45
Wrap Up	Talk about future class lessons and send out a feedback form.	4:45-5:00

Please visit our website at www.mathreim.org to learn more about our services and mission. You may also email your questions to our founders:

Shubha Gautam: shubha.gautam@mathreim.org

Contact email: contact@mathreim.org



SYLLABUS

Example Syllabus from 2020

9/6: Basics of algebra

- Solving systems of equations (equations/graphing)

9/13: Speed/distance

- Distance, rate, time problems

9/20 Graphing

- Graphs and the coordinate plane

9/27 Percents/fractions/ratios

- Mixture problems, class size problems

10/4 Sequences

- Arithmetic/Geometric sequences, recursive sequences

10/11 Basics of Counting and Probability

- Combinations, permutations, Venn diagrams=PIE

10/18 Basics of Geometry

- Circles, triangles, quadrilaterals, areas & perimeters, angles

10/25 Basics of Number Theory

- Remainders (mods), divisibility, primes, lcm/gcd

11/1 Overall review

- Review concepts learned to prepare for AMC 8 in mid-November

11/8 Mock AMC 8 and Q&A

- Take a mock AMC 8 test and review the problems/ask any questions

11/15 Go over AMC 8 problems

- Discuss AMC 8 problems and solutions
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