

## **Math+: An Advanced Learning Opportunity**

*Hosted Online*

This is Mr. Greg Owsley, the Director of the STEAM (Science, Technology, Engineering, Arts, and Mathematics) initiative at Rockhurst High School. I have joined RedwoodPrep to teach an Advanced Mathematics class, **Math+**, this Summer for boys and girls in the 6<sup>th</sup> to 8<sup>th</sup> grades. This course focuses on Number Theory.

I strongly believe in Math+ and would encourage your family to participate. Each Math+ course explores 1 major idea included in Stanford University's introductory math sequence. These topics are not typically included in the traditional mathematics curriculum and Math+ tailors this world-class content to be accessible for younger students. We want students to be excited about math – and Math+ does a great job doing just that.

Due to the current COVID-19 situation, we have launched a new format last year utilizing Zoom and other interactive online tools that engage and challenge students while ensuring a fun and interesting environment.

This course will be taught on Tuesdays, Wednesdays and Thursdays from 12:45 to 2:00 pm starting on Tuesday, June 8th for two weeks. The program will cost \$250. Families can sign-up at [www.RedwoodPrep.com](http://www.RedwoodPrep.com).

This Summer, the Math+ program will be focused on Number Theory – a branch of math devoted primarily to the study of integers (e.g., -1, 2, 3). The concept has applications across disciplines and is particularly critical in computer science.

Over the six classes, we will explore different aspects of this critical concept. The course will begin by defining number theory and its various applications. We will then move to more advanced concepts and explore major theorems and discoveries including the Fibonacci sequence and the Golden Ratio. We will also connect our learning to computer applications and even cryptography.

Most core applications will rely on skills students already know such as addition, multiplication, fractions etc. Problems and concepts included in the course are provided at a level students can first handle and then master.

Students and families who enjoy math, are interested in advanced high school mathematics, high performance on the high school admission's exam, SAT and ACT, or general mathematical ability would particularly benefit from this course.

If you have any questions, please reach out. I hope to work with you and your family on this exciting program.

Best,

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