

# That One Math Guy

## Course Syllabus

### **General Information**

Class: Algebra 2 (S-A2)

Website: [www.thatonemathguy.com](http://www.thatonemathguy.com)

Time: Live 11:00 - 12:30pm

Online Classroom: <https://us02web.zoom.us/j/88224560137>

### **Course Description**

Algebra 2 promotes mastery of advanced algebraic concepts and modeling, serving as an effective introduction to material presented within Pre-Calculus. Algebra 2 solidifies students' understanding of functions, explores quadratics and conic sections, and refines the concepts of polynomials and matrices.

Like all That One Math Guy (TOMG) classes, Algebra 2 is driven by application and a deep, conceptual understanding of the mechanics and reasoning of math. Students will investigate relationships between functions and the real world, explore patterns and build their own rules, and simply play with math.

### **Class Composition**

Each class begins with a thorough review of topics presented during the previous period and seamlessly transitions to introducing two to three major lessons through thoughtful analysis, analogies, and practical applications. Students are given time to practice each new skill through group and individual work as well as teacher led remediation.

Students should spend class time focused on understanding concepts, not feverishly writing down information in order to decipher it later. To alleviate any anxiety and promote a greater understanding of the material, all classes are recorded and class notes made available on the class website by the following day.

## Homework

Homework is an unfortunate, yet necessary evil. With such limited class time, students are given both paper-based and interactive online assignments to complete each week. These assignments are designed to review essential content learned earlier in the week and prepare students for eventual quizzes and tests. Students should initially focus on paper-based assignments, which are available to print on the class page, in order to practice basic skills before moving to the online homework on [www.classmarker.com](http://www.classmarker.com). Ideally, students should attempt to set aside time for math each day.

Online assignments are fully automated and interactive, providing instant results and remediation for students. Completion of online homework also results in an additional point on the accompanying quiz. To further encourage students, quiz questions, while random, are often taken directly from the homework problem set. **Due to the asynchronous nature of summer classes, all assignments will be given a suggested due date. This date will allow students adequate time to complete each assignment and remain on pace to finish the class on time. All assignments are due on or before August 24th. No exceptions.**

## Quizzes

Weekly quizzes are relatively short (5-10 questions) and designed to promote student ownership and accountability. All quizzes are taken online and outside of class time. Students will be given the opportunity to earn up to 6 points on each quiz (including 1 additional point from interactive homework), though each quiz is actually out of only 4.8 points. This means a perfect score yields students 6/4.8 points or 125%. Therefore, each quiz offers students the ability to earn extra credit through consistent work and preparation. **Due to the asynchronous nature of summer classes, all assignments will be given a suggested due date. This date will allow students adequate time to complete each assignment and remain on pace to finish the class on time. All assignments are due on or before August 24th. No exceptions.**

## Testing

Tests are proctored at home under parental supervision in order to conserve class time. Students are permitted unlimited time provided the test is completed during one sitting (unless otherwise specified). Tests are distributed through email and should be returned in a similar fashion. While it is suggested that tests be completed and returned within one week, **all tests are due on or before August 24th. No exceptions.**

Please allow approximately one week for grading.

Students are held to a strict honor code and are not permitted to discuss test content. Discussing the test, providing answers, or using unsanctioned resources may result in a zero.

Parents, please understand your level of involvement can artificially inflate test scores. As homeschool parents, you have final authority over grades. I hope that you will work with me to ensure students' grades are a true reflection of their individual knowledge and effort.

## **Grading**

Student grades are essentially based on the following formula:

Tests & Projects	60%
Quizzes & Homework	40%

Our course follows a basic 10 point scale:

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

Parents are able to view student's grades and progress through <https://app.schoolology.com/login>. Information regarding access is available on the class page.

## **Absences**

One of the many wonderful aspects of homeschool education is the inherent flexibility in creating your own schedule. Absences are bound to occur, either through illness or extracurricular activity. Please refer to the website for any recordings, missed assignments, and class notes.

All work missed due to activity or illness may be excused upon parents' request.

## **Teacher Information**

Cell: (919) 520-5110

Email: [ndsorenson@gmail.com](mailto:ndsorenson@gmail.com)

Conferences available upon request. Please allow 24 hours for email or text inquiries. Grades are available through <https://app.schoolology.com/login> (more information to come).

Full disclosure, I have an incredibly busy teaching schedule this year. I will do my absolute best to devote every ounce of energy and concentration to my students both inside and out of class. Between teaching, grading papers, and creating content for the website, my time will be constricted.

If you have a question, however, please ask. If you have a concern about your child, please share it. If you have a desperate need to tell me I'm awesome and my hair looks amazing, please relay that as well. I love me some me. Just please be a little flexible in my response time.

## **Thanks**

I am so incredibly thankful for the opportunity to teach your child and play a small part in their personal and academic success. Please let me know if you have any questions. I am looking forward to an exciting and rewarding year!