

### Algebra 2/Trig Course Description

Welcome to 10<sup>th</sup> grade math! With the completion of Algebra I and Geometry, you are now prepared for a journey into advanced mathematics. This course begins with an extensive review of the core of Algebra, and then continues with a deep study of functions, probability, sequences and series, and systems of equations.

#### Semester 1

Appendix A: **Core Concepts of Algebra 2** (emphasis on exponents, radicals, factoring, and solving)

Chapter 1: **Functions & Their Graphs** (analyzing & transforming functions algebraically and graphically)

#### Semester 2

Chapter 2: **Polynomial and Rational Functions** (analyzing quadratic, polynomial, and rational functions)

Chapter 3: **Exponential and Logarithmic Functions** (analyzing  $b^x$ ,  $e^x$ ,  $\log x$ , and  $\ln x$  functions)

Chapter 4: **Trigonometry** (angles in radians, unit circle, graphs of trigonometric functions)

Chapter 9: **Sequences, Series, and Probability** (arithmetic, geometric seq/ser, counting, and probability)

*\*This is a general guide and may be adjusted for content and pace throughout the year.*

### General Policies and Procedures

#### Absences:

- If you are **absent** one or two days, you will have one day for each day you missed to make up assignments. Please show make-up work to me during regular homework checks or Lyceum.
- If you are absent three or more days in a row, we can work on a plan to get you caught up.
- If you miss a test day, you will take it the following school day or **after school** upon your return.

### Bring to Class Every Day

1. Math Binder
2. Textbook
3. Fresh **graph paper** or graph paper notebook
4. Pencils with an eraser. Colored pencils are optional, but helpful.
5. Graphing Calculator – will not be allowed on any assessments in the first semester.

### Behavior

When the basic principles of **courtesy and respect** are not followed, consequences will result. I will follow Scottsdale Prep's policies outlined in the *Family Handbook*.

Some common examples are:

- **Tardies**: three tardies equals one detention [ $3t = d$ ].
- **Seriously wrong choices** will result in visiting the Dean of Students immediately.

### Homework

**Homework will be assigned daily**, except on R&R weekends. I will post each homework assignment on the white board. I will provide a homework calendar for each chapter that I will also post on the homework blog. YOU are responsible for knowing your homework assignment each night. I will check your homework daily. **ALL HOMEWORK ASSIGNMENTS ARE TO BE COMPLETED ON GRAPH PAPER.**

## Homework Tips for Success

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I cannot emphasize strongly enough the importance of **UNDERSTANDING** the homework problems during the course of each chapter. This means checking your answers while doing the problems, figuring out any incorrect problems, and asking questions about those you do not understand. *In math, understanding the homework is everything!!!*

- **Check, correct, and score** your homework with a pen using the text or other solution source.
- **Keep all homework** in your notebook for homework checks and to help study for tests.
- **Attempt all problems!** At a *minimum*, write down the problem, your best attempt at a solution, and any questions you have about the problem to ask the next class period.

## Evaluation and Grades

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My philosophy is to *focus on learning, not grades*; however, the habit of striving toward mastery will usually have the consequence of a “good grade”. Grades at Scottsdale Prep are not simply a numerical computation, though scores on assessments have a significant impact. Your grade will be based on:

- **Sense of wonder and depth of inquiry**

*To earn a full “A”, students must consistently display a strong sense of wonder, inquire deeply, and have a positive attitude, in addition to developing a deep understanding evidenced by high scores on assessments.*

- **Depth of understanding:**

. *Categories and their weights are as follows:*

- *Homework (15%)*
- *Participation (10%)*
- *Quizzes (10%)*
- *Tests (65%)*

*Students must have an average of at least 60% in the quiz and test category to receive a passing mark for the course, regardless of the average in the other categories. A 59% or lower average in both the quiz and test categories at each grading period (especially year’s end) is a failing grade.*

## Tutoring

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**Tutoring will be available Monday – Friday during Lyceum in room 211 or by appointment.**

**Tutoring before and after school is by appointment only.\***

Because tutoring is limited, it is intended as additional help for students who are seeking a more thorough understanding of the principles presented during class. Tutoring hours may also be used to make up missing quizzes, tests, or assignments missed due to absence. Tutoring is not intended to replace class time for students who were not attentive to regular instruction, nor is tutoring an appropriate time for students or parents to discuss performance. These concerns, and others, should be reserved for private discussions by appointment only.

\*Emailing me the night before you wish to meet does not count as making an appointment since I normally do not check my work email between 4 pm and 8 am.

Dear Parents/Guardians,

Please take the time to read this syllabus with your student, so that you both may understand the expectations and requirements for this class. After reading the syllabus, please sign below to indicate that you have read and understand this information, tear off this page, and return to your student. Your student's first assignment will be to return this page, with your signature, to me by Thursday, August 9<sup>th</sup>. Please feel free to contact me at any time throughout the semester with any questions or concerns.

Sincerely,

Mrs. Abigail Dunphy

Email: [adunphy@scottsdaleprep.org](mailto:adunphy@scottsdaleprep.org)

Student name: \_\_\_\_\_

Student signature: \_\_\_\_\_

Parent name: \_\_\_\_\_

Parent signature: \_\_\_\_\_

Preferred daytime phone: \_\_\_\_\_

Preferred email: \_\_\_\_\_

Please feel free to write any questions or comments below.