

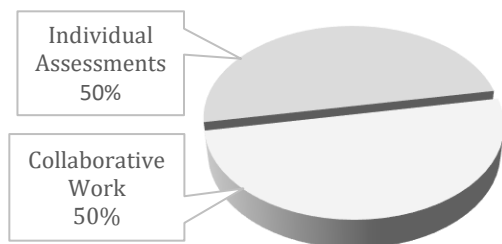
## Syllabus

Welcome! I am looking forward to working with you this year in Intensified Algebra 1. Math is everywhere in our lives, and understanding mathematics helps us to better solve problems and make sense of the world around us. This class also puts a real emphasis on habits of mind. We will be exploring *the way we learn* and how to improve learning right alongside our algebra concepts. For these reasons, I am eager to see your skills and understanding grow as the year goes on. Here are some of the things you will need to know as we start the year...

**Goals:** In addition to describing our world in powerful ways, algebra provides the “grammar” of mathematics. Intensified Algebra 1 will include the following key concepts:

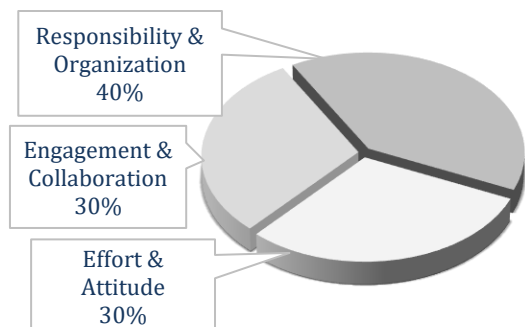
- Interpret and change expressions to solve problems.
- Create equations, systems of equations, and functions to model situations.
- Solve linear and non-linear equations and systems of equations.
- Represent relationships in multiple ways (graphs, tables, descriptions, equations).
- Deepen understanding of functions including function notation.
- Build new functions from existing functions.
- Interpret and summarize data using linear models.

**Algebra 1 Evaluation:** This gives the Algebra 1 credit. Daily assignments and in-class work are vital to success in this class. Students making a good effort in these areas will find more success on quizzes, projects, and tests. Missed assessments will be made-up on student time. Late work will receive partial credit. *\*Please remember that any student who is unsuccessful in Algebra 1 will need to repeat the class. This is one of the math credits required to graduate.*



- *Individual Assessments* include quizzes, unit tests, and final exams.
- *Collaborative Work* includes daily work, class projects, and team assessments.

**Elective Evaluation:** This gives the Elective credit. Grades are based on three main categories of student attributes:



- *Responsibility and Organization:* Students are ready to learn at the beginning and throughout the class.
- *Effort and Attitude:* Students take on complex problems and keep up the work throughout the year.
- *Engagement and Collaboration:* Students make the most of the content and their teamwork.

## OVERALL GRADING

A- 90-92%	A 93-100%	
B- 80-82%	B 83-86%	B+ 87-89%
C- 70-72%	C 73-76%	C+ 77-79%
F Below 60%	D 60-69%	

**Classroom Expectations:** It is our responsibility to make the classroom a safe and positive place for learning.

*\*Everything we do will show respect for ourselves, each other, and the school.*

As an important part of our learning process, we will be focusing on developing effective student habits and personal discipline. We will strengthen our classroom policies with these reminders:

- Students who are not seated and ready when class starts are tardy.
- Binders and other materials will remain clean and organized.
- Cell phones and other distractions should be stowed away, not in a pocket or within easy reach.
- Students who are not engaged in the lesson are not following expectations.

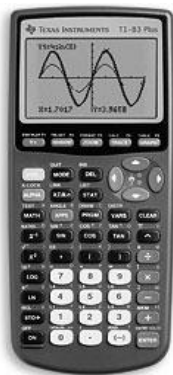
We will take time to reflect on these habits in the context of our elective grading categories.

**Materials:** Each student will need...

- a composition book (Squalicum will provide your first one.)
- graph paper (We will have some on hand in the classroom.)
- pencils - color pencils are also recommended

We will be using technology for exploring math through calculations, functions, and graphing. We will not require students to have their own calculators. But if it is possible to purchase a graphing calculator now, it will be a great tool throughout high school.

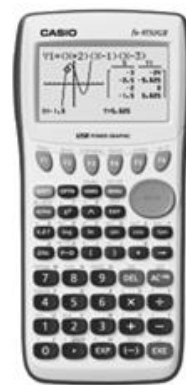
*TI-83 and TI-84 models are recommended.*



TI-83 Plus



TI-84 Plus



Casio  
FX-300ES



