

# Algebra 1 Syllabus

Instructor: Mrs. Urquhart

Email: [murquhart@aimhighschool.com](mailto:murquhart@aimhighschool.com)

Website: [urquhartmath.weebly.com](http://urquhartmath.weebly.com)



## Course Content

**Unit 0** – Pre-Algebra Review

**Unit 1** – Expressions & Number Types

**Unit 2** – Properties of Algebra & Variable Expressions

**Unit 3** – Solve and Write Equations

**Unit 4** – Ratios, Rates, Proportions, & Equations with Rational Coefficients

**Unit 5** – Percentages & Percent Equations

**Unit 6** – Write Linear Equations

**Unit 7** – Write Linear Functions

**Unit 8** – Solve & Write Systems of Equations

**Unit 9** – Introduction to Inequalities, absolute Values, and Square Roots

**Unit 10** – Exponents

**Unit 11** – Polynomials

**Unit 11** – Algebra 2 Preview

**Welcome** to Algebra 1! Algebra 1 is designed to develop students' higher level thinking processes. It will prepare students for higher-level courses and careers requiring the use of mathematics. The student must successfully complete Pre-Algebra before beginning Algebra 1.

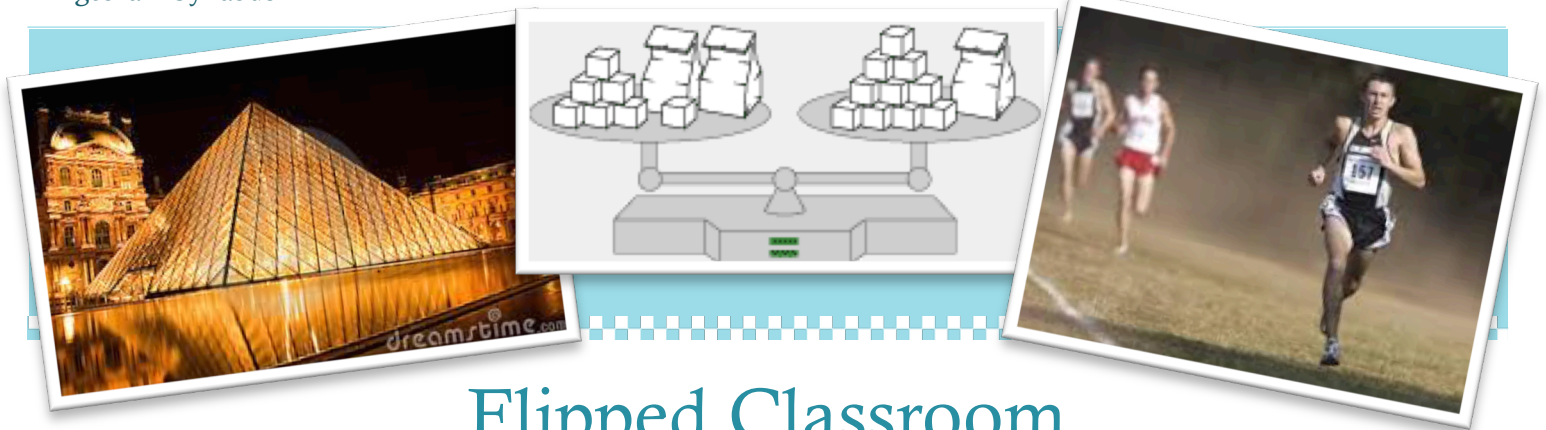
*I have made a commitment to you that with a positive attitude, I will do my best each and everyday to be prepared and help you succeed. It is my desire for you to make the same commitment to yourself that you will do all you can to ensure your success.*

*Any question you have is a good question, so please ask away. My classroom is a warm and accepting environment. Together, with both of our commitments, we will certainly have a fantastic semester!*

## Materials Needed for Class

- 1) Pencils
- 2) Colored Pens
- 3) Lined Paper
- 4) Pencil Case
- 5) TI-30 Scientific Calculator
- 6) Composition graph paper notebook
- 7) Headphones



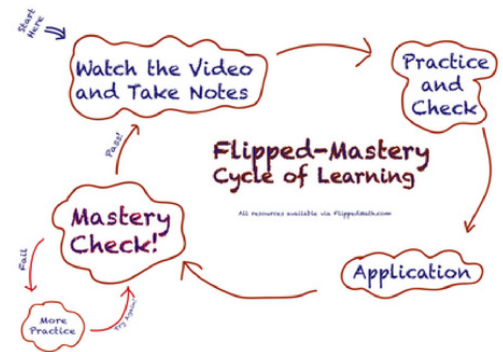


## Flipped Classroom

At AHS, Algebra 1 is taught in a flipped classroom structure. Students will be responsible for taking guided notes alongside video lessons and will use class time to work through problem sets with my support. Homework will take the form of either filling out guided notes or completing additional practice problem sets.

Students should utilize this website to prepare for assessments by watching/re-watching video lessons and doing extra practice problems as necessary.

At least one [Dan Meyer's 3 Act Math Activity](#) will be provide per unit to encourage independent problem solving skills through real world applications.



## Breakdown for Semester Grading

### In-Class Participation (5 Points Daily)

Students are graded on a daily basis for their participation in class.

In-class participation points are earned for being present, on time, and prepared for class. Points are also earned for following directives, working cooperatively with others, and being productive throughout the class period.

### Outside-of-Class Participation (5 points Daily)

Students regularly earn points for completing problem sets and/or taking quality notes on video lessons.

Points are earned daily based on completion of the assigned task. Work must be shown, notes must be filled out, and all assigned problems need to be attempted (No problems should be left blank), and work must be shown.

In-Class Participation	20%
Outside-of-Class Participation	20%
Mastery Checks	30%
Unit Tests	30%

### Mastery Checks (15 points each)

Every 1-2 sections, there will be short assessments to check for understanding.

Students have an opportunity to retake any mastery check for full credit once before the next unit test. Retakes must be scheduled in advance and completed outside of class.

### Unit Tests (100 points each)

At the end of every chapter, there will be a larger comprehensive assessment covering all the sections of the unit. No retakes are allowed on unit tests.

## Tips for Success

### #1 COME PREPARED!

Every day you should have your pencil, math binder, calculator and homework out prior to the start of class so you are ready to go.

### #2 USE EVERY MINUTE OF CLASS TIME!

Students that work hard in class every period have very little work to be done outside of class. If you are working hard, you shouldn't ever have more than 20 minutes of homework to complete outside of class.

### #3 ASK QUESTIONS!

If you don't understand something, ASK! This course will build upon itself and it is important that you understand the material in one lesson before moving ahead to the next. Refusing to ask a question or seek help, when you need it, will just create a lot more stress for you in the long run.

### #4 NO SHORTCUTS!

Don't waste time by trying to skim through videos, not check practice solutions, or leave parts of the packet blank. This only slows you down, as I will not allow you to take a mastery check until the packet is done correctly. More importantly, you are more likely to fail the mastery check when you cut corners. This means you will need to do a Corrective Assignment and have to schedule retake outside of class.

### #5 GET AHEAD OF PACE!

Getting ahead of schedule is a huge help in case you miss a class or run into a challenging section. Being ahead of pace ensures that you have a good grade at all times. When you miss class, you are missing 80+ minutes of math work. That is why getting ahead is so key for completing course on time. Also, if you go above and beyond your homework obligations I may award you an **orange ticket**, which will replace one low participation score of your choosing.



## DETAILED WEEKLY MATH PROGRESS REPORT

We at AHS feel that it is important for students to master content before they move on to the next math standard. Therefore, it is essential that students are able to work at individual paces in order to best retain course material. Students who are able to move quickly through material will have the opportunity to finish their math course early, while other students may need additional time to master content and complete the course.

Even though we may alter the pace for our students, we at AHS have high expectations for each of them. At AHS, students are given the opportunity to receive an adjusted math schedule -- as long as they are participating to the best of their abilities, both in and outside of class. We expect that students use in-class time effectively *and* work on math outside of class on a daily basis.

Every week, parents will receive detailed math progress report. These reports will outline the student's percentages in each of the following categories:

- Overall Grade & Progress through Course Material
- In Class & Outside of Class Participation
- Mastery Checks & Unit Tests

As long as both the student's in-class and outside-of-class participation scores are above 80%, they will earn their math credit for that semester. However, if either of the two participation scores are below 80% and course material is not completed, summer school will be required to make up credit -- as not enough time was devoted to the course during the year.

---

## ALGEBRA SYLLABUS SIGNATURE SHEET

**Parents/students:** Please read all information on the syllabus and sign and return this sheet tomorrow. **This is your first grade of the semester and is worth 60 Participation points!!!!!!**

I have read the attached syllabus and I understand all the procedures and rules regarding Algebra 1.

---

Student Signature

---

Student Name (Printed)

---

Parent/Guardian Signature

---

Parent/Guardian Name (Printed)