

Foundations in Algebra 1 Syllabus for 2025-2026

Course Title Foundations in Algebra 1

Length of Course 1 Year

Prerequisite None

Course Description Foundations in Algebra I is a course designed to provide a mathematical foundation and an introduction to essential algebraic topics. The course focuses on developing number sense, solving linear equations and inequalities, graphing linear functions, solving systems of equations, and exponent properties. This course provides support to students who need reinforcement in fundamental algebraic concepts. This course will prepare students for Foundations in Algebra II.

Curriculum Flipped Math Algebra 1 Traditional

Units and Topics Covered Topics:

- Expressions and Equations
- Real Numbers
- Solve Linear Equations
- Proportional Reasoning
- Graph Linear Equations
- Write Linear Equations

Skills Proficiency and/or mastery of the topics above in the areas of quantities and modeling, understanding functions, representing linear functions, equations and inequalities, as well as statistical models.

Writing Written explanation of problem-solving, written explanations of where difficulty occurs in assignments, short answer questions

Assessments Tests, quizzes, homework quizzes, projects, class work, partner work

**At the end of this course,
Students will be prepared for:** Foundations in Algebra 2

Grading Criteria Grading in this course is based on a system of total points.

CLASS EXPECTATIONS:

Attendance: Absences can cause you to quickly fall behind. You are expected to get your notes and assignments **the day you return to school**. If you are absent on the day prior to or day of a test or a quiz, you will be expected to take the test or quiz immediately upon your return.

Behavior: . Be punctual and prepared to work. Please listen carefully and **raise your hand to speak**. Always treat others with respect.

Extra Help: Please **seek extra help** as soon as you are having difficulty in class. It is so important not to fall behind. Ask a question in class, work with a classmate, search for an online tutorial, or see me outside of class for help.

Make-up Work: When you are absent, it is your responsibility to find out what was missed. Make-up work due to absences is expected to be completed **by the next class**. If you miss more than several classes in a row or have extenuating circumstances, please see me to set up special arrangements.

Class Agreements:

- **Class Environment:** We all agree to respect ourselves and each other.
- **Tardy Policy:** We all agree to be on time for class and ready to learn.
- **Food/ Drink Policy:** We agree to be respectful with food and drinks in the classroom.
- **Pass Policy:** We all agree to be respectful when leaving the classroom. We will also respect the school rule that only one student will be out of the classroom at a time.
- **Cell Phone Policy:** We all agree to follow the bell to bell state law no cell phone policy.

Grading Criteria:

Quarter Grades:

I will be calculating your grade using a point system. This point system will consist of the following activities; homework, class work, projects, homework quizzes, quizzes, and tests.. Your grade will be the total points you earned divided by the total points available. See below for breakdown of individual assessments/activities.

Homework Quizzes: homework quizzes are frequent assessments that will be administered at the beginning or end of most classes. These are quick assessments that will gauge your understanding of the information along with how well the class understood a topic on a whole. These will be short and will be anywhere from 5-15 points. There are no retakes or makeups of homework quizzes.

Tests: Each chapter we discuss will have a test at the end. The test points range from 50 to 100. You are allowed to retake a test within 5 school days of when the test was returned to you. To retake a test you must speak to Mrs. McKenney. Retakes will not be given during class, please make the appropriate arrangements to see me after school, before school or during a study hall. If you are using a cell phone during an assessment, you will get your phone taken away and receive a 0 on that assessment.

Final Grades for the Year:

- 4 quarter grades are worth 80% of the final grade.
- Midterm exam is worth 10% of the final grade.
- Final exam is worth 10% of the final grade.

Quiz/Test Retakes: Students are allowed a retake on assessments to demonstrate proficiency. The maximum grade on a retake is capped at 75%. You **must** see me first for extra help and to make corrections on your original test or quiz. Then, you will be allowed to retake a different version of that assessment. You have one week after receiving the original graded assessment to complete the retake.

Supplies/Materials:

- Online graphing tools
 - 3-ring binder at least 1 ½ inches in width with notebook paper.
 - Ruler
 - Pencils
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Extra Help and Availability: I am available for extra help every day until 2:50 in room 117 or by appointment. Please notify me in advance when you're coming so I can plan accordingly. **Please utilize the bobcat block for extra help as well!**

Online Resources:

Homework Assignments: Google Classroom

Basic Online Graphing Calculator: www.desmos.com

Check out this website for quality tutorial videos: <http://www.khanacademy.org/>

Vision of a Graduate

Pride and tradition, two cornerstones in the foundation of our school culture, are a legacy from our past and a vision for our future. Plymouth Regional High School is committed to preparing students to become productive and engaged citizens in a global community. Therefore, in addition to acquiring a core body of knowledge through local curriculum that reflects state and national standards, all students will develop the following skills and dispositions.

P *ractical Skills and Personal Growth*

- *Develop viable skills that support success in the workforce*
- *Become a self - directed and adaptable lifelong learner*
- *Pursue interests and passions*
- *Reflect on successes and failures with resilience, tenacity, flexibility and perseverance*

R *esponsibility and Respect*

- *Demonstrate responsibility for one's own mental, physical and financial wellness*
- *Take ownership for learning and behavior*
- *Show reliability for tasks, time and ideas*
- *Exhibit honesty, integrity, empathy, fairness and respect*

I *nnovation and Critical Thinking*

- *Explore and design innovative solutions to complex and authentic problems*
- *Engage in creative expression*
- *Think creatively to transfer knowledge and apply skills to new situations*
- *Critically interpret, analyze, synthesize and apply information*

D *iversity and Awareness*

- *Value diverse opinions, ideas and abilities*
- *Recognize and respect other cultural perspectives*
- *Engage in new experiences to gain awareness*
- *Demonstrate civic, social, environmental and global responsibility*

E *ngagement and Communication*

- *Impact the community positively through service and/or leadership*
 - *Collaborate effectively to produce a unified product*
 - *Speak and write for authentic purposes*
 - *Listen actively for understanding*
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