

Algebra Course Syllabus

Course Title: Algebra

Grade Level(s): 8

Instructor: Ms. Kirsten Applegate
Plan Period: 1st hour
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Course Description:

Algebra I is a study of the abstract way numbers behave and interrelate. This course is designed to develop the ability to think both abstractly and logically. Emphasis will be placed on positive and negative numbers, algebraic expressions, linear and quadratic equations, exponentials, and order of operations. This course also introduces and gives practice with area, volume, and surface area in preparation for Geometry.

Course Objectives:

After completing this course, the students will be able to utilize problem solving in these areas:

1. Unit multipliers for linear measurements, area, and volume
2. Factors
3. Order of operations
4. Algebraic expressions
5. Signed numbers
6. Exponents
7. Equations
8. Square roots
9. Polynomials
10. Coordinate planes
11. Weighted averages
12. Complex fractions
13. Scientific notation
14. Value problems
15. Motion problems
16. Geometric topics
17. Pythagorean Theorem

Instructional Strategies/Learning Activities:

Lectures and guided practice: Lectures will be a part of everyday class. Lectures will cover the new material along with example problems done as a class.

Cooperative Learning: Other activities will be implanted in class as part of supplemental work for the new material and for MAP preparation and critical thinking problems. These will be done in individual, group, and as whole class settings.

Student Grade will be based upon:

Homework will be given on a daily basis and quizzes will be given every one to two weeks. Tests will be given every four to five lessons unless instructed otherwise. Points will be assigned to each assignment, class work, and test. Scores will be based on a percentage of points earned out of points possible.

Percent (%)	Grade
96-100	A
90-95	A-
87-89	B+
84-86	B
80-83	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
63-66	D
60-62	D-
59 and below	F

Students will have the opportunity to redo any homework (that was not turned in late) the following day if they wish to receive a better score. There will also be some opportunities for students to retake quizzes if they show that they have worked for improvement in mastering the concept before the chapter test.

Make-up work/Late work:

Each student is responsible for his/her own work. Missed work must be completed within 2 days of the day missed or before a chapter test or the points will not be rewarded.

Late homework will be accepted only up until the test for that section. 25% will be taken off any homework turned in late after class.

Math is linked together like a puzzle and if a part of the puzzle is skipped, further progress is delayed. I will be available most morning before school for any tutoring needed.

Classroom Expectations:

1. Be responsible
2. Be respectful
3. Be courteous
4. Be cooperative
- 5.** Be truthful