

Algebra 2A
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1.0Credit
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Outcomes:

At the completion of this course, you will be expected to know and be able to do the following:

- (1) Review and analyze the basic properties and rules of mathematics including order of operations, divisibility rules, absolute value, prime factorization and the use of factors.
- (2) Review and analyze the basic properties of fractions, decimals, and percents including how they interrelate.
- (3) Estimate logical mathematical outcomes in real life situations including best buys and exchange rates.
- (4) Explore geometric measurement in 1, 2, and 3-dimensionals and build estimation skills for length, area, and volume of everyday objects.
- (5) Explore probability and odds in both theoretical and real world situations.
- (6) Organize data through tables, charts, and graphs.
- (7) Manipulate and solve equations to describe patterns and model real world applications.
- (8) Memorize, manipulate, and use various formulae.
- (9) Enhance spatial awareness through study of congruency, symmetry, similarity, and other geometric principles.
- (10) Perform rigid transformations of the coordinate plane.
- (11) Review all previously learned math concepts.
- (12) Discuss class progress with a parent/guardian.

You will attain mastery of the above outcomes in three ways: drill and practice, analytical reasoning expressed through writing, and mathematical modeling. Here is what you can expect in each area.

Drill and Practice

Skills cannot be mastered unless they are practiced. You can expect that for every concept you are taught in class you will be expected to practice it over and over again, in homework, daily warm-up activities, and mental math. Expect homework most every day. There will often be some class time to work on the assignment.

Mathematical Modeling

In addition, we plan to strengthen your understanding of mathematical concepts through various in-class activities and modeling exercises. It could be a game or a lab experiment, but we will always try to make them fun and meaningful at the same time.

Expectations for Coursework:

Our progress will be measured in the following ways: tests, quizzes, and homework. Each of them plays a part in calculating your final grade for the class. Tests and quizzes are worth about 75% of your final grade. Homework is worth about 25% of your final grade. Late work is accepted but not for full credit.

Grading. Your grade will be determined by averaging the scores in each of the areas above to attain a percentage. This percentage will be translated into a grade based on the following scale:

92 – 100	A	72 – 77	C
90 – 91	A-	70 – 71	C-
88 – 89	B+	68 – 69	D+ (no credit)
82 – 87	B	60 – 67	D (no credit)
80 – 81	B-	Below 60	F (no credit)
78 – 79	C+		