

Algebra 1 - Syllabus

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Text:

Description: Algebra 1: 1 credit

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Standards for Mathematical Practice apply throughout each course, and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Outline:

- 1) Relationships Between Quantities
- 2) Exponents and Real Numbers
- 3) Expressions
- 4) Equations and Inequalities in One Variable
- 5) Equations in Two Variables and Functions
- 6) Linear Functions
- 7) Building Linear Functions
- 8) Modeling with Linear Functions
- 9) Systems of Equations and Inequalities
- 10) Polynomials and Operations
- 11) Factoring Polynomials
- 12) Solving Quadratic Equations
- 13) Quadratic Functions
- 14) Exponential Functions and Equations
- 15) Modeling with Exponential Functions
- 16) Descriptive Statistics
- 17) Data Displays
- 18) Piecewise and Absolute Value Functions
- 19) Square Root and Cube Root Functions

Required materials: Pencil, eraser, and a composition notebook

Evaluation: Grades are calculated based on number of points earned divided by the total points. All assessments will be evaluated based on correctness. The total points vary for Quiz, homework and classwork. Every Test and projects will have a value of 100 points. Rubric will be provided with the projects.

- **Quiz** (~ biweekly)
- **Test** (~ biweekly)
- **Homework** to turn in (~ 1 per week)
- **Classwork** (to turn in)
- **Projects** (~ 1)
- **Late Work**
 - -Late work will be accepted, but the academic consequence will be decided by the teacher (not less than ½ credit if completed).
 - -All late work should be turned in prior to the Summative Assessment unless granted an extension by the teacher.
 - -If given an opportunity to make up the work, a zero can be entered (document in Progress Book).
- **Make-up Work**
 - -Students will be given one day plus one for every day absent to make up assignments and tests.
 - -A student who is absent will be required to make-up work whether the absence is excused or unexcused.
 - **-Students shall be responsible for contacting teachers and arranging for make-up work.**
 - -The teacher's decision on make-up work beyond the one-day per absence rule will be final.
 - -Long-term projects assigned with two weeks (10 school days) advance notice shall be turned in on the assigned due date even if the student is absent. The teacher or an administrator may make exceptions to this rule for extreme or extenuating circumstances.
 - -Students who do not complete make-up work within the specified time may be given a zero.
 - -Students who are suspended out of school will be allowed to make up work missed. Students will be given one day plus one to make up work for each day suspended out of school.
 - -Students absent the day of a test announced prior to their absence may be given the test on the first day back. The teacher also reserves the right to give a different test to students who miss the original test.
 - -Grades for make-up work turned in late may be lowered by one letter grade per school day the assignment is late.
 - -Students with planned absences should make every effort to keep up with class work during the absence. **It is the student's responsibility to notify the attendance office and their teachers of the planned absence, to take all necessary steps to complete missed course work during the absence and turn in completed work upon returning to school. There are prearranging forms located in the attendance office.**

Classroom Procedures:

- 1) Place the homework on the teacher's desk (if apply).
- 2) Get materials ready.
- 3) Copy the homework (if apply).
- 4) Copy the bellwork.
- 5) Start working on the bellwork. By this time the bell should ring and I will take attendance.
- 6) Pay close attention to instructions.
- 7) Participate in class.
- 8) Ask for help.
- 9) Clean up your area.
- 10) Leave the classroom.

Expectations: I expect every student to:

be polite

be respectful

be on time

be responsible

be prepared for class

ask for help

help others

participate in class instruction

have class materials

do not use any electronic device in class (cell phone, tablet, music players, etc.). Ask the teacher for approval if intended to be used for instructional purpose.

Student's Responsibilities: Is the student's responsibility:

- 1) to know the code of conduct.
- 2) to know the OCPS make up policy.
- 3) to know the OCPS grading policy.
- 4) to ask the teacher for help.
- 5) to be respectful to everyone.
- 6) to ask for makeup work in a timely frame.

The essence of mathematics is not to make simple things complicated, but to make complicated things simple. ~S. Gudder