



Intro Algebra/Algebra 1

Course Syllabus 2021-2022

Elizabeth Johns elizabeth.johns1@hcps.org

Course Description

This course provides students with an introduction to algebra and its unique language. Throughout the year, students will be introduced to concepts that provide them with a foundation that will play a major role in their future success in mathematics. This course explores quantities and relationships; graphs, equations and inequalities; linear functions; exponential functions; quadratic functions, and systems of equations and inequalities. Students will spend part of class time working with the Algebra 1 Mathia Software. The successful completion of Intro Algebra and Algebra I earns two mathematics credits for graduation.

Goals for Student Learning

Students will build their mathematical proficiency by...

- Making sense of problems and persevering in solving them.
- Reasoning abstractly and quantitatively.
- Constructing viable arguments and critiquing the reasoning of others.
- Modelling with mathematics.
- Using appropriate tools strategically.
- Attending to precision.
- Looking for and making use of structure.
- Looking for and expressing regularity in repeated reasoning.

Textbook

The textbook used in Introduction to Algebra is Cognitive Learning, Algebra 1. Each student's textbook will remain in the classroom for in-class use unless the student requests to take their copy home. If so, then the student is in charge of bringing the text to class each day.

Required Supplies

- TI-84 Calculator needed for completing homework
 - **Desmos (online program) may be used via the computer.**
 - #2 pencil(s) or other writing tools
 - Math Binder
 - Spiral Notebook
 - Each student is required to bring his/her materials to every class! Calculators are provided for in class use.

Course Outline

Concepts	<p>Module 1: Searching for Patterns Topic 1: Quantities and Relationships Topic 2: Sequences Topic 3: Linear Regressions</p> <p>Module 2: Exploring Linear Change Topic 1: Linear Functions Topic 2: Solving Linear Equations and Inequalities Topic 3: Systems of Equations and Inequalities Topic 4: Functions Derived from Linear Relationships</p>	<p>Module 3: Investigating Growth and Decay Topic 1: Introduction to Exponential Functions Topic 2: Using Exponential Equations</p> <p>Module 4: Describing Distributions Topic 1: One-Variable Statistics Topic 2: Two-Variable Categorical Data</p> <p>Module 5: Maximizing and Minimizing Topic 1: Introduction too Quadratic Functions Topic 2: Solving Quadratic Equations Topic 3: Applications of Quadratics</p>
-----------------	---	---

Classroom Rules and Procedures

- **You are responsible for your work.** You must turn in assignments before you leave school for an activity and be prepared for the next class.
- **You are responsible during an absence to get copies of the classwork and homework assignments.**
- **You are responsible for your success.** Please make an appointment with me for extra help if you are having difficulty with a particular topic.
- Use the restroom and go to your locker during passing time.
- We are all decent human beings, please act accordingly.

HCPS Grading Policy

Examples of Product, Process, and Practice		
PRODUCT (50%) <i>Culminating Demonstration of Knowledge</i>	PROCESS (30%) <i>Addressing Specific Short-Term Learning Outcomes</i>	PRACTICE (20%) <i>Building Attitudes, Habits, and Skills</i>
Does it measure how well students achieved specific learning goals, standards, and/or competencies?	Does it provide feedback to students regarding growth towards the attainment of specific learning goals, standards and competencies?	Does it allow students to practice skills and/or reinforce content learning?
<ul style="list-style-type: none"> • Primarily completed in presence of teacher • Rubric aligned to standards • Accuracy graded 	<ul style="list-style-type: none"> • Primarily completed in presence of teacher • Rubric aligned to standards • Accuracy graded 	<ul style="list-style-type: none"> • Graded for completion and participation

****Extra credit will not be given for non-academic purposes****

Please check HAC to check your grades at posted times. It is your responsibility to monitor your progress.

Absent Work Policy

All assignments should be submitted on time. Students will be given the number of class periods equal to the number of lawful class periods absent to turn in completed make up assignments without penalty. If a student is unlawfully absent, the late work policy below applies.

Late Work Policy

All assignments should be submitted on time in order to earn full credit. Any assignment, (*product, process, or practice*) will be allowed to be turned in late for one letter grade deduction from the grade a student earns on the assignment. In order to earn credit for late assignments, students must submit assignments by the end of the day on Wednesday (except for the last week of the quarter) following the designated HAC update. Students are only able to submit assignments that have an established due date within the grading window before the designated HAC update. Assignment that are turned in for late credit will be identified by a footnote in HAC to include a statement about the deduction of a letter grade due to the lateness of the assignment.

Grading Window	Designated HAC Update	Late Work Due Date
September 8- September 24	September 24	September 29
September 27- October 13	October 13	October 20
October 14- October 29	October 29	November 5 (Friday)
November 8- November 19	November 19	November 24
November 22- December 10	December 10	December 15
December 13- January 13	January 13	January 21 (Friday)
January 24- February 11	February 11	February 16
February 14- February 25	February 25	March 2
February 28- March 11	March 11	March 16
March 14- March 25	March 25	March 31 (Thursday)
April 1- April 22	April 22	April 27
April 25- May 6	May 6	May 11
May 11- May 20	May 20	May 25

Academic Integrity

Academic integrity is taking responsibility for the quality and completion of one's own work. Academic dishonesty is taking someone else's work and claiming it as one's own. Students at Bel Air High School are responsible for knowing what is considered to be Academic Dishonesty and the subsequent consequences.

Cell Phone Policy

Students will place their electronic devices (including, but not limited to, cell phones, listening devices, smart watches, laptops, and iPads), either on silent or off, in a teacher designated area as they enter each classroom. Teachers will review with students the specific location for each room. The devices will remain in the teacher designated areas unless teachers explicitly tell students to use them as a part of classroom instruction.

- Devices will remain in the teacher designated area during bathroom visits.
- Devices will be retrieved from the teacher designated area at the end of the class at the direction of the teacher.
- School-appropriate cellphone use is permitted during class changes and lunch. Students are not permitted to make phone calls during school hours.
- Students will NOT be permitted to carry their electronic devices in a book bag throughout the school day.

If the electronic device policy is violated, the student shall then be subject to disciplinary action up to, and including, confiscation of the device as well as an office referral.

Test Corrections

Students are allowed to do test corrections after each test. By completing the test corrections, students have the opportunity to earn back up to half the points lost on the original exam. Test corrections are due one (1) week after the original test is returned.

Feedback Expectations

Students will receive written feedback on *Practice* assignments, if turned in on time. If turned in late, the student is encouraged to seek out verbal feedback from the teacher during homeroom. For *Process* and *Product* assignments, students are encouraged to seek out verbal feedback during homeroom as needed.