

George Washington High School

Course Syllabus



Course Name: Algebra 1

Instructor Name: Richmond K Osei

Contact Information: Call or email me with any questions or concerns.

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- Planning Period/Office Hours: 6th Period (1:50-2:50) & 7th Period (2:55- 3:45)

Course Description

Algebra I prepares students for college and career readiness by building a strong foundation in algebraic thinking, reasoning, and problem-solving. Aligned with the Virginia Standards of Learning (SOL), this course transitions students from concrete numerical concepts to abstract symbolic mathematics. Students will explore functional relationships, transformational graphing, linear and quadratic models, and data analysis using real-world applications and graphing technology. Mastery of these concepts serves as the essential gateway to success in upper-level mathematics.

VDOE Standards.

Algebra I Curriculum Map

Algebra 1 is designed to introduce students to the fundamental concepts of algebra. The course covers solving and graphing algebraic equations and inequalities in one or two variables, understanding function behavior and notation, including linear, quadratic, and exponential functions, performing operations with polynomials and understanding exponent rules, and basic data analysis and interpretation.

Unit Name	Standards of Learning (SOL)	Big Ideas	Suggested Time Frame	
			Yearlong	Semester
Unit 0: Think Like a Mathematician	Priority SOL: 8.NS.2abc Complementary SOL: 8.PFA.1ab	Subsets of Real Numbers Algebraic Expressions	5 days	3 days
Unit 1: Exploring Algebraic Foundations	Priority SOL: A.EI.1bc; A.F.1di,ii,iii,iv; A.F.2a Complementary SOL: A.EI.1adef; A.F.1abcfgh; A.F.2g	Equations Inequalities Linear Functions	34 days	12 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days	3 days (Fall) 2 days (Spring)

Unit 2: Systems of Equations & Inequalities	Priority SOL: A.EI.2a; A.EI.2f Complementary SOL: A.EI.2bcdeh	Systems of linear equations Systems of linear inequalities	16 days	5 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days	3 days (Fall) 2 days (Spring)
Unit 3: Exponents, Radicals, & Exponential Functions	Priority SOL: A.EO.3b; A.EO.4c Complementary SOL: A.EO.3a; A.EO.4abd; A.F.2efg	Laws of Exponents Radicals and Radical Expressions Exponential Functions	20 days	7 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days	3 days (Fall) 2 days (Spring)
Unit 4: Polynomials & Factoring	Priority SOL: A.EO.2c Complementary SOL: A.EO.2abde	Polynomial Operations Factoring Polynomials	20 days	10 days (Fall) 9 days (Spring)
Buffer Days: Assessment, Enrichment, and Remediation			5 days	3 days (Fall) 2 days (Spring)
Unit 5: Quadratic Functions & Equations	Priority SOL: A.F.2bc Complementary SOL: A.F.1afg; A.F.2cdefgh; A.EI.3abc	Quadratic Equations Quadratic Functions	26 days	13 days (Fall) 11 days (Spring)
Buffer Days: Assessment, Enrichment, and Remediation			5 days	3 days (Fall) 2 days (Spring)
Unit 6: Data Analysis	Priority SOL: A.ST.1defgh Complementary SOL: A.ST.1abci	Scatterplots Linear regression Quadratic regression Bivariate data	9 days	6 days

Unit Name	Standards of Learning (SOL)	Big Ideas	Suggested Time Frame	
			Yearlong	Semester
Unit 7: Show What You Know	Review assessment data to identify student strengths and areas for growth. Provide differentiated learning opportunities to reinforce and extend understanding, ensuring all students demonstrate ongoing mastery through targeted support and enrichment.		20 days	10 days

Complementary Standards are “those standards that support, connect to, or enhance the Priority Standards. They are taught within the context of the Priority Standards but do not receive the same degree of instruction and assessment emphasis as the Priority Standards”. (Ainsworth, 2013, 2019)

Major Assignments

Major Assignments include unit tests, quizzes, performance tasks, mathematical modeling projects, SOL practice assessments, midterm and final examinations, and cumulative review activities. Students may also complete digital assignments and collaborative projects throughout the course, Algebra I SOL End-of-Course Virginia Standards of Learning for Algebra I.

Student Evaluation:

- (Gold) Tests, Projects, Labs, Final Essays 40 %
- (Silver) Quizzes, Lab Reports 35 %
- (Bronze) Classwork and Homework 25 %

A = 90-100% | B = 89-80% | C = 79-70% | D = 69-60% | F = 59-0%

- **Final Exams** will count for 10% of the overall grade for each high school course.
 - Courses with Standards of Learning end-of -course assessments will count this test as the final exam and must calculate the score as 10% of the final grade

Student Goal:

During the 2026–2027 school year, all students will actively engage with High-Quality Instructional Materials (HQIM) and instruction provided by the teacher to earn a final course grade of 80% or higher, maintain 90% or greater attendance in the course, and pass the applicable End-of-Course SOL assessment or gain industry credential.

Promotion Requirements:

In alignment with the Virginia High School League, individual student promotion shall be based upon satisfactory performance as follows:

Grade Level	Required Credits
9th	0-5
10th	6
11th	12
12th	18

Promotion is based upon earned units of credits. Before a student can graduate, he or she must earn the required credits as indicated below:

1. To be classified as a 10th grader, a student must have earned a minimum of six (6) standard units of credit to include three credits, which must be from the disciplines of English, mathematics, science, history, or physical education.

2. To be classified as an 11th grader, a student must have earned a minimum of twelve (12) standards of credit to include six credits which must be from the disciplines of English, mathematics, science, history, or physical education.
3. To be classified as a 12th grader, a student must have earned a minimum of eighteen (18) standard units of credit, including ten credits, which must be from the disciplines of English, mathematics, science, history, or physical education.
4. Five (5) verified credits (i.e., English (2), mathematics (1), science (1), and history (1) are graduation requirements for the Advanced Diploma and Standard Diploma). Minimally, students are expected to earn verified credits as follows:
 - i. 9th grade earns at least one verified credit
 - ii. 10th grade earns at least two verified credits
 - iii. 11th grade earns at least two verified credits in English

Please be aware that you can keep track of your student's grades, assignments, and attendance by using your Parent Portal account. Homework is posted each week on our school webpage under the teacher's name. Please contact your student's school counselor or grade level administrator if you need help navigating our school website, a Parent Portal activation code, or assistance accessing the Parent Portal.

Course Requirements:

- All homework should be completed as assigned.
- All students should be ready to participate in all class activities.
- All students will be expected to use appropriate classroom etiquette.
- All students are expected to be respectful, responsible, and ready to learn on a daily basis

Makeup Work Procedure:

- For excused absences, it is the responsibility of the student to secure and complete the missed assignments in consultation with the teacher. Students have 7 days, including weekends, from the due date to complete any missing work.

Late Work Procedure:

- Late work will be accepted up to 3 calendar days after the due date. If that date falls on the weekend/breaks/student absence, students **should** communicate with the teacher on submission requirements.
- No assignment will be accepted beyond three days of the original due date and the student may receive a grade of Zero. After the three days the student may utilize the Grade Recovery Procedure to recover missing assignments.
- Late work will be accepted at a penalty of 25% off of the earned grade.
 - **Late work formula calculation** → **Student Score x 0.75 = Final Assignment Score**
 - ie. if a student submits an assignment late and earns a 90, the late penalty would be 22.5 points deducted for a total of 67.5% grade

Parent and Student Resources

- All parents are encouraged to check the Parent Portal to monitor student academic progress and attendance. PowerSchool Mobile can be downloaded from Google Play and the App Store.
- Be sure to follow the George Washington High School on Facebook and on the DPS App.

