SILICON VALLEY HIGH SCHOOL® ₼ Home Dashboard m Events My Courses ♣ This course **Course Catalog** Show blocks Full screen > Courses > Courses Ready to Build > Alg1 Pt1 Your progress ③ Algebra 1, Part 1

How To Take This Course	
Using a math notebook, work through each lesson, copying the examples in the videos and reading. When there are practice problems work those out in the notebook as well. As you complete the quizzes, write the problems out in the math notebook to use for test review.	
Complete all the quizzes and the assignment in each unit. Once the quizzes for a unit are complete, you will have access to the unit test. We recommend you complete the unit assignment before you attempt the unit test, the assignment will help you prepare. You will have access to the final when all unit tests are complete and your assignments are graded.	
Allow 2-3 days for an assignment to be graded. Read the full course instructions to understand the course grading.	
Instructions for the Course	
How This Course Works & Suggested Timeline	
Submitting Your Assignments	
Ask The Teacher	
Meet your teacher for this course and ask a question.	
MANDATORY QUIZ - You have to take this quiz before you begin the course!	
Unit 1 Foundations of Algebra	
In this unit we will learn:	
How to solve simple equations, and will work with more complex variables and expressions.	
 How to write and simplify Algebraic expressions, involving basic functions with Real Numbers. How to analyze and combine like terms, and a mastery of powers and exponents, as well as roots and irrational numbers. 	
How to analyze and combine like terms, and a mastery of powers and exponents, as well as roots and mational numbers.	
1.1 Variables & Expressions	
(iii) 1.1 Quiz	
1.2 Adding and Subtracting Real Numbers	
(a) 1.2 Quiz	
1.3 Multiplying and Dividing Real Numbers	

1.3 Quiz 1.4 Powers and Exponents 1.4 Quiz 1.5 Roots and Irrational Numbers

1.5 Quiz 1.6 Properties of Real Numbers

1.6 Quiz 1.7 Simplifying Expressions 1.7 Quiz Unit 1 Assignment - Real Number Puzzles

Unit 2 Equations

In this unit we will learn:

• To move on from solving one step to two step equations, including equations in which the variable is on both sides.

· How to identify real life scenarios and express them as proportions. · How to solve those proportions for the given variable using cross multiplication. . How to use algebraic techniques to solve literal equations for a particular variable.

. How to solve and comprehend absolute value equations, showing that two solutions are likely in those scenarios. 2.1 Solving One Step Equations

2.1 Quiz

2.2 Quiz

2.3 Quiz

2.4 Quiz

2.5 Quiz

2.6 Quiz

2.7 Quiz

Unit 3 Inequalities

In this unit we will learn:

3.1 Quiz

3.2 Quiz

3.3 Quiz

3.4 Quiz

3.5 Quiz

3.6 Quiz

3.7 Quiz

Unit 4 Functions

In this unit we will learn:

4.1 Relations and Functions

4.2 Modeling with Functions

4.1 Quiz

4.2 Quiz

4.3 Quiz

4.4 Quiz

4.5 Quiz

4.6 Quiz

Unit 5 Linear Functions

In this unit we will learn:

5.1 Quiz

5.3 Quiz

5.4 Quiz

5.5 Quiz

5.6 Quiz

5.7 Quiz

5.8 Quiz

In this unit we will learn to:

suitable for which scenario.

than two inequalities at a time.

6.1 Solving Systems by Graphing

6.2 Solving Systems by Substitution

6.3 Solving Systems by Elimination

6.6 Solving and Graphing Linear Inequalities

6.7 Solving Systems of Linear Inequalities

Warning: You have only ONE attempt at the Final. There is a 3 hour time limit.

have unlimited attempts at the practice final; it will help you to prepare.

requirement the links will become active and you can use them.

Thank you for taking this course! Let us know what you think about it.

If you need SVHS to send proof of your course completion directly to your school, complete this form.

Restricted Not available unless: The activity Final Exam is marked complete

Restricted Not available unless: The activity Final Exam is marked complete

Unit 6 Assignment - Child's Play

appear below the Practice Final.

Practice Final Exam

We hope you enjoyed this course!

A Request a Course Completion Record

Certificate of Completion

Course Feedback

Course Completion

6.4 Solving Special Systems

6.1 Quiz

6.2 Quiz

6.3 Quiz

6.4 Quiz

6.5 Applying Systems

6.5 Quiz

6.6 Quiz

6.7 Quiz

Final Exam

Good Luck!!

systems.

5.8 Linear Word Problems

B Unit 5 Assignment - Linear Models

5.6 Point- Slope Form

5.4 Direct Variation

5.5 Slope- Intercept Form

5.3 Slope

4.3 Writing Functions

4.4 Arithmetic Sequence

4.5 Graphing Functions

4.6 PieceWise Functions

Unit 4 Assignment - Funky Functions

positive or negative correlation.

another, with regards to graphing.

5.1 Linear Equations and Functions

5.2 Graphing Linear Functions Using Intercepts

5.7 Slopes of Parallel and Perpendicular Lines

Unit 6 Systems of Equations and Inequalities

3.6 Solving Compound Inequalities

3.7 Solving Absolute-Value Inequalities

Unit 3 Assignment: Data Rates Apply

How to spot and analyze relations and functions, understanding that not all relations are functions.

· How to calculate trend lines and to understand that they are an estimation in most cases. · To take this understanding of functions and learn arithmetic sequences and their patterns.

How to write functions from real life scenarios and how to develop a deep understanding of graphing a "best line of fit" for scatter plots.

. How to identify and manipulate linearequations and functions, as well as match graphs to equations using key characteristics like intercepts, the slope, and

. To able to switch between the intercept form and the point-slope form of algebraic equations and will understand when one form is more convenient than

. How to develop an understanding that two lines cross at a single point and how to incorporate prior knowledge of linear equations and inequalities to solve

. How to solve systems of equations and inequalities using the graphing, substitution, and elimination methods, and how to identify which technique is more

. How to solve systems of inequalities and how to identify ranges of solutions that satisfy both linear inequalities in a system, and how to do the same for more

Complete all the assignments and unit tests in this course. Once they are complete and the assignments have been graded, the Final will be made available and

Are you ready to take the Final? We highly recommend you take the Practice Final first and if you are weak in any area, review the relevant course material again. You

The "Certificate" and "Course Completion Record Request" links below are not active, they cannot be accessed until you have taken the final. Upon satisfying this

Before you go, we would appreciate your opinion on the course, please take 1 minute to complete the feedback form.

How to solve special systems, including both consistent and inconsistent systems, and how to apply systems to real life scenarios.

. How to understand and be able to identify when two lines are parallel, perpendicular, or of no particular relationship, using the slopes of the two lines.

3.1 Graphing and Writing Inequalities

3.2 Solving Inequalities by Adding or Subtracting

3.3 Solving Inequalities by Multiplying or Dividing

3.4 Solving Two Step and Multi-Step Inequalities

3.5 Solving Inequalities with Variables on Both Sides

2.5 Solving Proportions

2.2 Solving Two Step Equations

2.3 Solving Multi- Step Equations

2.4 Solving Equations with Variables on Both Sides

2.6 Solving Literal Equations for a Variable

2.7 Solving Absolute-Value Equations

Unit 2 Assignment: Equations Around Us - Project

. How to take what was learned from solving and graphing linear equations and progress to graphing and writing inequalities.

. How to solve complex inequalities and to gain the understanding that there is no single solution, but rather a range of possible answers with inequalities.

. How to compare and contrast what is known about absolute value equations with absolute value inequalities, and how to graph the outcomes.