



# Algebra 1 Syllabus

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## **Instructor**

Mrs. Tiffany  
Willis

## **Course Overview**

*Welcome to Algebra 1!* 😊 The purpose of this course is to satisfy the educational requirements of Algebra 1. Additionally, students will practice the skills of online collaboration, overcoming challenges, and personal responsibility.

## **Email**

support@prealgebrawithpurpose.com

**Zoom code:** *emailed one week prior to class beginning*

**Google Classroom Code:** *emailed one week prior to class beginning*

## **Class Meeting Time**

Tue/Thu  
10:00am CST or 2:00pm CST  
(circle your enrolled time)

## **Class culture:**

- **Ask questions.** Questions mean you are trying to make sense of rules in math, but you have a missing piece of info or need to know more nuance to a rule.
- **Highly Successful People Have Failed More Than Most People Have Even Tried** Fun fact: Humans learn fastest from making mistakes. “Fail faster”
- **I could be wrong** We want to approach class discussions with both confidence and humility.
- **Be resourceful.** Use your notes and tools when applicable. Flip back in your notes.
- **You are responsible for your outcome.** I am here to help if/when you need, but ultimately it is you who has to do the work
- **Adapt and overcome.** When it’s difficult (and it will be), adjust and keep going.

If you show up, try, and complete your work, you will be successful! 😊

## **Class Rules & Expectations**

- Arrive on time
- Webcam on (if at all possible), no other people in background
- Listen to others and participate in class discussions
- Ask questions & “fail faster”
- Stay on task
- Complete your assignments on time
- Bring materials and have them ready
- Students must be fully clothed (top and bottoms) and dress in a manner appropriate for class

In the very extreme case where a student is not following the class rules and expectations or is otherwise inappropriate, such student will be sent back to the waiting room for the remainder of the class and parent contact will be made. Depending on the severity, such student may be permanently suspended from the class and is not subject to a refund of any sort.



## ***Class Materials***

- Algebra 1 Curriculum Workbook (sent upon enrollment, must be printed)
- Pencil
- Calculator (graphing calculator preferred but not necessary as you can utilize a free online version - see *Resources* below)

## ***Resources***

- Free Online Graphing calculator: [TI-84](#) (this is the one we will use in class)
- [Desmos graphing calculator](#)
- You can use your own graphing calculator if you have one

## ***Grades***

***Homework, Quizzes/Tests Policy*** Homework and quizzes are due one week from the date they are assigned at 11:59pm in your time zone.

***Late work policy:*** Late work will not be accepted. If there are extenuating circumstances, please have your parent reach out before the deadline.

***Semester Exams*** are due at 11:59pm the day they are assigned in your time zone, unless a parent reaches out to notify of needing an extension in advance/before the deadline has passed.

***Make-up Work Policy:*** A student will have the number of days absent (excused) plus one to turn in make-up work.

### ***Grading Outline***

Semester Exam (cumulative) = 20%

Quizzes/Tests = 20%

Homework = 50%

Participation = 10%

### ***Letter Grade***

***A*** 90+

***B*** 80-89

***C*** 70-79

***F*** <70

Note: The 3 lowest homework assignments will be dropped at the end of each semester.



## Course Outline and Standards

Unit	Topic	Texas TEKS	Common Core	Florida B.E.S.T.	Arizona Standards	Tennessee Standards
<b>Unit 0</b>	Algebra I Prerequisite Skills	A.1 Mathematical Process Standards	SMP 1–8 Mathematical Practices	MTR Standards (Mathematical Thinking & Reasoning)	SMP Mathematical Practices	Mathematical Practices
<b>Unit 1</b>	Solving Equations & Inequalities	A.5(A), A.5(B)	HSA-REI.B.3, HSA-CED.A.1	MA.912.AR.2	HS.A-REI.3	A-REI.B.3
<b>Unit 2</b>	Linear Equations	A.4(B), A.4(C)	HSF-IF.B.4, HSA-CED.A.2	MA.912.AR.3	HS.F-IF.4	F-IF.B.4
<b>Unit 3</b>	Linear & Absolute Value Functions	A.4(C), A.4(D)	HSF-IF.C.7, HSF-LE.A.1	MA.912.AR.3	HS.F-LE.1	F-LE.A.1
<b>Unit 4</b>	Systems of Equations & Inequalities	A.5(C), A.4(D)	HSA-REI.C.5, HSA-REI.C.6	MA.912.AR.4	HS.A-REI.6	A-REI.C.6
<b>Unit 5</b>	Exponents & Exponential Functions	A.9(A), A.9(B)	HSF-LE.A.1, HSF-LE.A.2	MA.912.AR.5	HS.F-LE.2	F-LE.A.2
<b>Unit 6</b>	Polynomials & Factoring	A.10(A), A.10(B), A.10(C), A.10(E)	HSA-APR.A.1	MA.912.AR.6	HS.A-APR.1	A-APR.A.1
<b>Unit 7</b>	Graphing Quadratic Functions	A.6(A), A.6(B)	HSF-IF.C.7a	MA.912.AR.7	HS.F-IF.7a	F-IF.C.7a
<b>Unit 8</b>	Solving Quadratic Equations	A.7(A), A.7(B)	HSA-REI.B.4	MA.912.AR.8	HS.A-REI.4	A-REI.B.4
<b>Unit 9</b>	Data & Statistics	A.4(A), A.8(A)	HSS-ID.A.1–4	MA.912.DP.1	HS.S-ID.1–4	S-ID.A.1–4

This course aligns with the Texas Essential Knowledge and Skills (TEKS) for Algebra I and covers the core Algebra I domains reflected in Common Core State Standards, Florida B.E.S.T. Standards, Arizona Mathematics Standards, and Tennessee Academic Standards.