

Mr. Moran Algebra 1a Syllabus 2021-2022

Course Title: Algebra 1a

Department: Mathematics

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Course Description:

In this course, students examine such topics as proportions, direct and inverse variation, linear equations, systems of equations, and inequalities. The examination of the topics is embedded in real-life situations and applications, and includes investigations where students construct their own understanding of the mathematical concepts. Algebra students will be expected to follow directions and be disciplined to read, listen and think on their own. To be successful, the student must complete daily assignments and be able to work independently.

Topics/Areas of Study/Units of Study (indicators):

Unit 1: 1 Variable Data (Indicators **F1P**, **F2P**, F5E, and F6E)

Unit 2: 2 Variable Data (Indicators **G1P** and **G2P**)

Unit 3: Linear Patterns (Indicators **C1P** and **D1P**)

Unit 4: Solving Linear Equations (Indicators **A1P**, **B1P**, B7E, B8E, **D2P**, **G3P**, and G6E)

Unit 5: Systems of Equations (Indicators **B2P**, **C2P**, and C7E)

Unit 6: Inequalities (Indicators **A2P**, A7E, A8E, **B3P**, **C3P**, C8E, C9E, G7E)

Note: all **bold** indicators are required proficient indicators to pass the course. All unbolded indicators are exemplary and above and beyond.

Materials/Text(s):

Chromebooks

Graphing Calculator: TI-83 Plus or TI-84 (do not wait or put this off)

3-Ring Binder (1½ - 2")

Pencils/erasers (Mechanical pencils are **STRONGLY** suggested so sharpeners aren't needed)

Loose-leaf lined and Graph Paper

Multi-colored pen (and/or colored pencils)

Ruler (in/cm)

Composition Book: plain, graph, or lined. (we can provide basic comp books, buy your own if want a special one)

Students *may* sign out a textbook by request. The replacement cost \$65. Ask!

ALL of these materials should be available during all class sessions, remote or in person.

Students **must** sign up for the Google Classroom for this class. The class code is **ou4sdt5**

To be entered at <https://classroom.google.com> or in your app. Make sure notifications are turned **ON**.

Practice:

During hybrid schooling, students will be expected to work on scheduled tasks that will be posted in Google Classroom, including practice work during the week. During in-person sessions, we will have the opportunity for practice and help and collaboration. Assignments are not scored for a grade.

Assessment/Reassessment:

Each unit will have a test to assess the indicators from that unit. These will likely be electronic and will occur at scheduled times either during the in-person sessions or during remote Google Meet sessions, with cameras on.

Reassessments on individual indicators, if needed, will be scheduled upon completion of required preparatory work/steps. These assessments will likely occur on Wednesdays, virtually.

Safety protocols (these may change over the course of the year):

- When mandated by the school, masks **must** be worn at all times covering both mouth and nose.
 - You may remove momentarily to sip water or have a snack.
 - Failure to comply will result in being sent to the office.
- At the end of class, you will need to wipe down your desk and chair before leaving.
- Don't leave any possessions in classrooms.
- One person to the bathroom at a time: sign out, take a pass.
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Expectations:

- Be on time for class
- Be Respectful in person and online. Not being respectful will result in a warning. If it continues, then a write up will follow.
- If there needs to be remote sessions, students will be expected to have their cameras on to help ensure the most communication and connection possible.
- Bring your chromebook to class. We will be using it to supplement learning, but they should be put away unless otherwise requested.
- Cell phones are to remain either out of sight or in the back of the room in the "CELL PHONE Condominium". If there is ever a time for cell phone use in class, I'll let you know. NO earbuds/headphones and smart watches must be removed for assessments. Smart watch distractions can also result in requests for putting them out of sight.
- If you are going to be absent from class I expect you to go to the google classroom to get the notes and the homework assignment. Please contact me if you're confused about the material.
- Join the Google Classroom, class code: 6dzhyo2
- Keep Google Classroom notifications turned **ON**.
- Every student is expected to make mistakes, but to succeed, students must learn from them.
- DO every assignment even though regular homework assignments are **not graded**.
- Students are expected to work with peers (appropriately distanced according to current district-wise expectations) and teachers within the class respectfully and productively. If you want to work together.
- If you find you're struggling with the content, I expect you to reach out to me so I can either arrange a time for us to talk or arrange some tutorial times for you in **Tide Pool with Mr. Willis**.
- Cheating could result in inability to earn Exemplary in the class. **Using "math apps" is cheating.**

Math tutorial schedule (additional times/locations for getting extra help):

Mon	Tues	Wednesday	Thurs	Fri
AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200
PM: 3:05-3:35 Dunlea - 101	None - Faculty Meetings	PM: 3:05-3:35 Dunlea - 101	PM: 3:05-3:35 Dunlea - 101	PM: 3:05-3:35 Dunlea - 101

List of Assessed Course Standards: See the attached Standards Checklist

This is a living document and changes may be made as needed.

Algebra 1(a) Standards Checklist 21-22

Standards	Code	Performance Indicators	Proficiency	Overall
A. ★ Creating Equations and Inequalities	1P	Create equations for linear relationships		
	2P	Create inequalities in one variable		
	7E	Create linear equations in point slope, intercept and standard form and recognize the most efficient form given the context		
	8E	Create inequalities in 1 or 2 variables		
B. ★ Solving Equations/ Inequalities	1P	Solve 1-variable linear equations, with at least 2 steps, and justify your reasoning		
	2P	Correctly solve a system of 2 linear equations using an algebraic method		
	3P	Solve 1-variable linear inequalities including negative coefficients, and justify your reasoning		
	7E	Solve 1-variable linear equations with multiple distributions, fractions, and negative numbers		
	8E	Solve multivariable equations for any single variable in any form (Literal Equations) with at least 3 steps.		
C. ★ Graphing	1P	Graph and describe Linear functions in terms of their features including intercepts, maximums, minimums, increasing/decreasing		
	2P	Solve linear systems by graphing		
	3P	Graph one variable and two variable linear inequalities		
	7E	Graph and label linear functions in any form		
	9E	Define feasible regions for a system of inequalities		
D. ★ Multiple Representations	1P	Write linear sequences both recursively and with an explicit formula, use them to model situations, and translate between the two forms		
	2P	Convert between Point-Slope and Intercept Form		
F. ★ Statistics	1P	Represent a data set with 3 or more models using appropriate units and scales		
	2P	Compare 2 or more data sets using measures of center, spread, and 5-number summaries, to make reasonable observations.		
	5E	Choose an appropriate model for a data set(s) and justify why		
	6E	Use IQR and outliers when comparing data sets		
G. ★ Modeling	1P	Identify a function from a graph or table, with explanation, and create examples of relations and functions		
	2P	Define the elements and boundaries of a relationship's domain and range		
	3P	Fit a linear function to a scatter plot and derive an equation to make predictions		
	6E	Explain why the line of fit is appropriate		
	7E	Linear programming		

In order to receive credit for Algebra 1a, students must be proficient in all 6 standards.

Indicators that include a P are all required for Proficiency in that standard.

Indicators that include an E are only required for Exemplary in that standard.

Course Performance Outline

COURSE RATING	GPA Value	GRADING CRITERIA
Exemplary	4.0	<ul style="list-style-type: none"> ● Majority of standards are Exemplary. ● No standards are Developing, Beginning, or No Evidence.
Partially Exemplary	3.5	<ul style="list-style-type: none"> ● Majority of standards are Proficient with at least one Exemplary. ● No standards are Developing, Beginning, or No Evidence.
Proficient	3.0	<ul style="list-style-type: none"> ● All required standards are Exemplary or Proficient. ● Majority of standards are Exemplary and/or Proficient. ● No standards are Beginning or No Evidence
Partially Proficient		<p>There is no “Partially Proficient” in this course.</p>
Developing	2.0	<ul style="list-style-type: none"> ● Majority of standards are Exemplary and/ or Proficient, but at least one No Evidence. <p align="center">OR</p> <ul style="list-style-type: none"> ● Majority of standards are Developing
Beginning	1.0	<ul style="list-style-type: none"> ● Majority of standards are Beginning.
No Evidence	0.0	<ul style="list-style-type: none"> ● Majority of the standards are No Evidence.