

# Ocean View Christian Academy Course Syllabus

## I. Basic Course Information

Course Title: Algebra1	Room #: 206	Transcript Abbreviation:
Length of Course: 2 Semesters		Subject Area & Discipline: Math
Pre-Requisites:		Course Credits/Designations:

<p>OVCA Course Philosophy (Explanation of why we include this subject area in our course offerings):  <i>The chief aim of all investigations of the external world should be to discover the rational order and harmony which has been imposed on it by God and which He revealed to us in the language of mathematics. Kepler, Johannes (1571-1630)</i></p>
<p>Course Goal (Description of what you will do and accomplish during the course):          The main purpose of Algebra I is to develop students' fluency with linear, quadratic, and exponential functions. The critical areas of instruction involve deepening and extending students' understanding of linear and exponential relationships by comparing and contrasting those relationships and by applying linear models to data that exhibit a linear trend. In addition, students engage in methods for analyzing, solving, and using exponential and quadratic functions. Some of the overarching elements of the Algebra I course include the notion of function, solving equations, rates of change and growth patterns, graphs as representations of functions, and modeling.</p>
<p>List of Key Course Topics:          Expressions and functions, linear equations, linear and nonlinear functions, linear inequalities, systems of linear equations and inequalities, exponents and exponential functions, polynomials, quadratic functions and equations, and statistics.</p>
<p>Course Materials, Supplies, &amp; Technology:          Glencoe Algebra 1 textbook, three-ring binder, lined paper, graph paper, blue/black pen, pencil, red pen, and scientific calculator.</p>

<p>Primary Instructional Methods:          Lecture, videos, participation, teamwork, and board work.</p>				
<p>Primary Student Activities:          Note-taking, participation, group work, homework, and assessments.</p>				
<p>Primary Assessment Methods: Homework, quizzes, tests, finals.          Capstone Project/Key Projects:</p>				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">                     Alignment Notes:                      OVCA Academic Benchmarks-                 </td> <td style="width: 50%; border: none;">                     Other OVCA Benchmarks-                 </td> </tr> <tr> <td style="border: none;">                     Department Outcomes-                 </td> <td style="border: none;">                     UC Course Components-                 </td> </tr> </table>	Alignment Notes: OVCA Academic Benchmarks-	Other OVCA Benchmarks-	Department Outcomes-	UC Course Components-
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## II. Tentative Course Timeline

Course Overview/Snapshot (3-5 sentences on the course's content):

Timeframe-1st Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 1-9	Unit 1	Preparing for algebra, expressions and functions, and linear equations.	Homework, quizzes, tests, final	Chapters 0-2

Timeframe-2nd Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 10-18	Unit 2	Linear and nonlinear functions, equations of linear functions and linear inequalities.	Homework, quizzes, tests, final	Chapters 3-5

Timeframe-3rd Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 19-27	Unit 3	Systems of linear equations and inequalities, exponents and exponential functions, and polynomials..	Homework, quizzes, tests, final	Chapters 6-8

Timeframe-4th Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 28-36	Unit 4	Quadratic functions and equations, and statistics.	Homework, quizzes, tests, final	Chapters 9-10


### III. Course Policies

#### Academic Expectations

<p><b>Homework and Assignment Standards:</b> All homework is mandatory and necessary for complete comprehension and preparation for future lessons. Homework is graded on completeness, neatness, and accuracy. Some assignments will be graded as quizzes.</p>	<p><b>Class Participation &amp; Note-Taking:</b> Note-taking is mandatory, and students should be prepared to work problems on classroom chalkboard.</p>
<p><b>Assignment Formatting:</b> All assignment notes and homework will be dated, with page number and problem numbers written with answers circled.</p>	<p><b>Grading:</b> Homework 20%, Quizzes 30 %, Tests 30%, Final exams 20%</p>
<p><b>Due Date Policies:</b> Homework is graded daily. Partial work may receive a 50%, while late or missing homework will receive a grade of zero.</p>	<p><b>Materials Maintenance/Other:</b></p>

#### Class Procedures

<p><b>At the start of class:</b> Begin Bell Work on homework assignment sheet.</p>	<p><b>When you have been absent:</b> All comprehension of lessons is the sole responsibility of each student. Students should utilize help-class after school, fellow students, lesson videos (Khan Academy, YouTube...), or tutors to assist in catching up on missed lessons or keeping up on current lessons.</p>
<p><b>At the end of class:</b> Double check homework assignment is notated correctly.</p>	<p><b>Coming to attention:</b> Be attentive and no speaking without permission.</p>
<p><b>Turning in assignments:</b></p>	<p><b>Other:</b></p>

#### Learning Environment

<p><b>Speaking in Turn:</b></p>	<p><b>Food and Drink Policies:</b></p>
<p><b>Class Worktimes:</b></p>	<p><b>Electronics/Devices:</b></p>

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Resources

Teacher Contact Info.:	Help Class Info.:
Other:	Other:

*Parent Signature:* \_\_\_\_\_ *Parent Name:* \_\_\_\_\_ *Date:* \_\_\_\_\_

*Student Signature:* \_\_\_\_\_ *Student Name:* \_\_\_\_\_ *Date:* \_\_\_\_\_