

Ocean View Christian Academy Course Syllabus

I. Basic Course Information

Course Title: Geometry	Room #: 206	Transcript Abbreviation:
Length of Course: 2 Semesters	Subject Area & Discipline: Math	
Pre-Requisites: Algebra 1	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 fundamental purpose of the Geometry course is to introduce students to formal geometric proofs and the study of plane figures, culminating in the study of right-triangle trigonometry and circles. Students begin to formally prove results about the geometry of the plane by using previously defined terms and notions. Similarity is explored in greater detail, with an emphasis on discovering trigonometric relationships and solving problems with right triangles. The major mathematical ideas in the Geometry course include geometric transformations, proving geometric theorems, congruence and similarity, analytic geometry, right-triangle trigonometry, and probability.</p>
<p>List of Key Course Topics: Geometric Structure: Tools of geometry, reasoning and proof, parallel and perpendicular lines. Congruence: Congruent triangles, relationships in triangles, quadrilaterals. Similarity: Proportions and similarity, right triangles and trigonometry, transformations and symmetry. Measurement: Circles, areas of polygons and circles, extending surface area and volume, probability and measurement.</p>
<p>Course Materials, Supplies, & Technology: Glencoe Geometry 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- Department Outcomes- </td> <td style="width: 50%; border: none;"> Other OVCA Benchmarks- UC Course Components- </td> </tr> </table>	Alignment Notes: OVCA Academic Benchmarks- Department Outcomes-	Other OVCA Benchmarks- UC Course Components-
Alignment Notes: OVCA Academic Benchmarks- Department Outcomes-	Other OVCA Benchmarks- UC Course Components-	

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	Tools of geometry, reasoning and proof, parallel and perpendicular lines	Homework, quizzes, tests, final	Chapters 1-3

Timeframe-2nd Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 10-18	Unit 2	Congruent triangles, relationships in triangles, quadrilaterals	Homework, quizzes, tests, final	Chapters 4-6

Timeframe-3rd Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 19-27	Unit 3	Proportions and similarity, right triangles and trigonometry, transformations and symmetry	Homework, quizzes, tests, final	Chapters 7-9

Timeframe-4th Quarter	Unit Name	Unit Topics	Basic Assessments/Tasks	Text Reference, Materials, Links
Weeks 28-36	Unit 4	Circles, areas of polygons and circles, extending surface area and volume, probability and measurement	Homework, quizzes, tests, final	Chapters 10-13

III. Course Policies

Academic Expectations

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

Class Procedures

<p>At the start of class: Begin Bell Work on homework assignment sheet.</p>	<p>When you have been absent: 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>At the end of class: Double check homework assignment is notated correctly.</p>	<p>Coming to attention: Be attentive and no speaking without permission.</p>
<p>Turning in assignments:</p>	<p>Other:</p>

Learning Environment

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

--	--

Resources

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

Parent Signature: _____ *Parent Name:* _____ *Date:* _____

Student Signature: _____ *Student Name:* _____ *Date:* _____