VENTURA HIGH EXPECTED CLASSROOM LEARNING RESULTS (ECLRs)

COURSE: GEOMETRY

PROGRAM AREA: MATHEMATICS	**TEACHER: MATT CHERRIE**
DEPARTMENT GOAL STATEMENT: Students will master the major concepts and skills of mathematics: number measurement, geometry, patterns and functions, statistics and probability, logic, and algebra. Students will reason, invent and construct; achieve a level of understanding that enables them to know how, why, and when to apply their mathematical learning.	

PRIMARY ESLR: The focus of this course will be to develop each students ability to think logically, and analytically.

COURSE DESCRIPTION	You will master the field of Geometry. Egyptian papyrus contain the beginnings of Geometry, a field fully explored and made famous by the Greek civilization. We will be studying the Geometry of Euclid who wrote the foundational geometry text *Elements* in about 300 B.C. You will learn the fundamental postulates of Geometry and use them to prove conjectures and theorems. You will study triangles in depth. You will also learn about "plane figures" – figures that can be drawn on a flat surface, studying polygons in depth. You will also study three dimensional objects, finding surface area and volume. Finally, you will be introduced to coordinate Geometry, which is a study of Geometry using the Cartesian plane.
TEACHER STATEMENT:	I am excited to be your teacher this year. I am looking forward to an enjoyable year in which you will have success learning Geometry. I think you are capable of learning the material that we will cover through this school year. I will do my best to provide the help, guidance, and encouragement you will need to achieve this success. To this end, I will be available to help you with questions or areas of weakness before school (I typically arrive between 7:30 and 7:45 a.m.). I will also be available at lunch or after school by appointment. I can not make you come in and get help you must do so of your own choosing. Please get help as soon as you begin to struggle. Don't become complacent. Math is a building subject – each section builds on the previous section and skills learned earlier in the course are employed to solve new problems or are used in concert with new techniques to solve new problems – please don't allow yourself to get behind in this class. You are the key to your success in this class.
GOALS OF THE COURSE	Learn the fundamentals of Geometry. Learn how to construct proofs using deductive reasoning. Learn the different properties of triangles: 1. Congruence 2. Similarity 3. Pythagorean's theorem 4. Trigonometric functions 5. Special right triangle relationships 6. Area Study polygons and the relationships that exist among them. Learn to work with circles. Learn to work with three dimensional objects. Develop spatial awareness. Learn about coordinate Geometry.
READING/WRITING COMPONENTS	Students read and follow directions for class assignments. Students will write during the homework. Students will write conclusions of classroom experiments and/or projects. Students will read the text.
MATERIAL/RESOURCES	1. Text: Geometry, by Little 2. Lecture notes 3. Scientific Calculator (if you will be continuing through Algebra II, a graphing calculator will be a wise investment). 4. Handouts & supplemental text or materials.

CLASS RULES	1. No eating or drinking in class (water is allowed). 2. Treat school property with care. 3. Seek help when you do not understand your assignments or classroom instructions. 4. Be in your chair prepared to work when the bell rings. 5. Follow any rules given by the administration or district.
CLASS ATTENDANCE	You must attend class regularly, or you will fall behind. Work from excused absences can be made up. Missed tests and/or quizzes can be made up before school. You are responsible for making up missed assignments. Tardies and unexcused absences will lower your grade. The school policy regarding these will be enforced. If you miss the review day (day before the test) but you come the day of the test, you will still be expected to take the test. As per school policy 8 tardies or unexcused absences will result in a drop from the class with the grade of F.
CLASS HOMEWORK POLICY	Homework or class work will be assigned almost every day and will be checked the following day in class. Homework is an integral component of your grade and must be done.
METHODS OF EVALUATION	Class work, homework, and tests will be the basis of the final grade.
GENERAL DIRECTIONS FOR TEXT ASSIGNMENTS IN (textbook title) TEXTBOOK:	Assignments will be posted daily. If you know you will be absent, please ask for the assignment in advance. If you are experiencing difficulties completing an assignment, begin by looking through the notes. Your class notes should contain the steps or method(s) used to solve the exercise. The textbook is also a very useful resource. It provides example problems that you can use to guide you through the homework. If both of those fail try your parents or a friend in the class (have a class members phone number). If all three do not help, come in before school and I will gladly help you with the problem or concept you don't understand.