**COURSE DESCRIPTION:**

 This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions.  It includes the study of transformations and right triangle trigonometry.  Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed.  It also emphasizes writing proofs to solve (prove) properties of geometric figures.

**COMPETENCIES:**

*Concepts:* Students will demonstrate skills and knowledge associated with the course content.

*Problem Solving:* Students will *“apply a variety of strategies…to solve mathematical problems”*(NCTM, 2000).

*Communication:* Students will *“use the language of mathematics to express mathematical ideas precisely”* (NCTM, 2000).

References:

National Council of Teachers of Mathematics. (2000). *Principles and Standards for School Mathematics*, Reston: The National Council of Teachers of Mathematics, Inc.

**SUPPLIES:**

* **Big Ideas Textbook and Student Journal**
* 3 Rind Binder
* Graphing Calculator, TI84
* Pencil

**EXPECTATIONS:**

1) Be on time for class. 1st tardy will result in a detention, additional tardiness will result in an office referral.

2) Come to class prepared. This includes having a writing utensil, calculator, homework/assignment, and binder. Cell phones, ipods, ipads are not allowed to be used as calculators.

3) The use of any handheld device (cell phone, ipod, ipad, music etc…) is strictly prohibited unless otherwise stated by the instructor. If a student is seen or heard using a handheld device it will be confiscated and brought down to the main office.

4) Be respectful of your peers and your surroundings.

**GRADING:**

Students’ grades will be determined solely from summative assessments which will be given after a bulk of information has been explored and students should be prepared to demonstrate their understanding of that content. These assessments will be the determining factor as to whether the student has demonstrated proficiency in the stated competencies.

Formative Assignments

* Homework will be given every night. It is the student’s responsibility to practice what is learned in class. Homework will not be graded, however it will be checked daily and recorded in Edline as follows: Signifies the student completed the assignment, \*\* Signifies the student did not complete the assignment.
* **Formative assignments will not be accepted after the due date.**

Summative Assignments

* Summative assignments include: tests, quizzes, looking backs, notebook quizzes, projects, presentations, and journal assignments.
* 10% will be taken off an assignment for each school day it is turned in late. After 10 school days the late assignment will result in a grade of a 0%.

Retakes

* All retakes are at the discretion of the teacher.
* The student is not eligible for a retake if there are any missing formative assignments.
* Retakes must be completed within 10 school days. No retakes will be accepted after this time.

Absences

* A student is allotted two school days for every missed class day to make up homework, class work, projects, papers or other assignments.
* It is the student’s responsibility to schedule a makeup assessment or get any material missed in class due to an absence.
* If a student is absent the day an assignment is due, it is expected that the day the student returns to school (even if he/she does not have this class) the assignment is turned in to the instructor.

I have read and understand all course rules and expectations.

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/ Guardian E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_