**GEOMETRY**

**Mr. Shane Davis**

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**Textbook:** Geometry, Holt McDougal, 2012. ISBN: 978-0-547-64714-2

**Materials:**

* Pencil (please no pens on work turned in for a grade)
* Notebook and 3 – ring binder
* Graphing calculator suggested

**Course Description:**

This course introduces students to the power of reasoning and logic through the study of basic Euclidean geometry. Students are exposed to both the traditional geometrical thinking which has long been a part of our culture, as well as the applications which are part of our contemporary lives such as Cartesian coordinates and computer graphics. Topics vary from the theoretical in proving theorems, to the practical of constructions and the calculation of areas and volumes.

**Assessments & Grading Scale:**

Grades will be determined as follows:

Tests – 40%, Quizzes – 25%, Homework – 25%, and class participation 10%

**Homework:**

Expect homework after each class. Homework assignments and due dates will be posted in Google Classroom. Students should have their homework complete before class begins. Homework will be checked periodically for completeness and/or correctness.

**Quizzes:**

Quizzes will be both announced and unannounced. They will comprise of a small block of material that students should be able to complete in at least one half of a class period.

**Tests/Exams:**

Tests/exams will comprise of a larger block of material. Usually tests will be given after each chapter, but sometimes may include 2-3 chapters of material. Tests and exams should be completed in the time allotted for one single class period. **There will be comprehensive exams given at the end of each semester.**

**In-Class Assignments/Class Participation:**

In-class assignments will be given and are expected to be completed during that class period. These assignments may or may not be counted towards a numerical grade. Students will be expected to participate in class, during question and answer sessions, class discussions, and in a way that is constructive towards the learning of themselves and their classmates.

**Topics Covered & Tentative Sequence:**

* Chapter 1 – Essentials for Geometry
* Chapter 2 – Reasoning and Proof
* Chapter 3 – Perpendicular and Parallel Lines
* Chapter 4 – Congruent Triangles
* Chapter 5 – Relationships Within Triangles
* Chapter 6 – Similarity
* Chapter 8 – Quadrilaterals
* Chapter 10 – Properties of Circles
* Chapter 11 – Measurement of Figures and Solids
* Chapter 7 – Right Triangles and Trigonometry
* Chapter 9 – Properties of Transformations

Please sign & return to Mr. Davis by September 8, 2017.

I have read and understand the course syllabus for Geometry.

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**Student signature**

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**Student printed name**

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**Parent/Guardian signature**

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**Parent/Guardian printed name**