

# Chester County High School

## Geometry Syllabus 2019-2020

Instructor: Ben Odom

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Room: W13

**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. Topics covered in this class will be tested on the Geometry end of course assessment and on the ACT.

**Standards Covered:** We will be covering the Tennessee's State Mathematics Standards for Geometry. These standards are on the Tennessee Department of Education website.

[https://www.tn.gov/content/dam/tn/education/standards/math/Standards\\_Support\\_Geom\\_Mathematics.pdf](https://www.tn.gov/content/dam/tn/education/standards/math/Standards_Support_Geom_Mathematics.pdf)

### Topics:

- Using a Rectangular Coordinate System (Parallel and Perpendicular Lines, Area and Perimeter)
- Composing and Decomposing Shapes
- Rigid Motions on a Plane (Translations, Reflections, Rotations)
- Triangle congruency
- Proofs and Theorems
- Using congruence Theorems
- Similarity
- Trigonometry
- Circles and Volume
- Conics
- Probability

**Grading Scale (School-wide):**

Report card letter grades reflect a percentage of those scores using the following grading scale:

A = 100 – 93

B = 92 – 85

C = 84 – 75

D = 74 – 70

F = 69 and below

Each student's grade will be calculated using the following percentages:

Assessments: 60%

Homework: 25%

Participation: 15%

**Resources:****Geometry, Carnegie Learning 1st Edition**

Students will be receiving consumable textbooks. Students will be charged if a replacement book is needed.

**TI-nspire cx calculators** will be available for students to use while in the classroom for testing.

**Supplies:**

Pencils

Notebooks/Paper

Three Ring Binder or Folder

Calculator (Optional)