

Academic Geometry

Course Syllabus

2011-2012

Instructor: Mr. Bob Biese

Classroom: Room 103

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HS phone number: (610) 298-8661

THE BEST WAY TO CONTACT ME IS VIA E-MAIL

Materials: EXPECTED to be brought to class everyday by every student

Text: Geometry – Glencoe/McGraw Hill – Students will use an online Textbook in Class, If needed, a student will be assigned a hardcopy of the textbook for use at home, otherwise, they may access their textbook online.

Recommended calculator: TI 84 Plus is recommended, however...the TI-30X IIS (available in most department/office supply stores) will be sufficient for most of your needs

Notebook: a three ring notebook will be required for keeping tests, handouts, notes, homework and projects. This notebook will be graded weekly.

Pencil: ***This is a mathematics course – I expect all tests and homework to be completed in pencil. I will not accept tests or homework that have been completed in pen.***

Course description

Geometry gives considerable attention to developing an understanding of the nature of deductive proof. Strong emphasis is placed on knowledge of definitions, theorems, and postulates. Students are encouraged to think of geometry as a system requiring logic of thought. In addition to the study of logic, students will explore angles, right triangles, circles, polygons, and three-dimensional shapes.

What to Do if You Miss Class:

- Making up work is your responsibility! When you return to school after an absence, first, check the class google group to see what assignments and activities you missed and/or check with a fellow classmate to see what information you need to obtain and what assignments were missed.
- If, over the course of the period, you have not received any missed handouts homework etc., see me at the end of class for the necessary material.
- If a quiz or test was missed, you need to see me at the end of the period or over flex so we can designate a time and place for you to complete the test.
- Hand-in any missing assignments to me in the period hand-in/out folder. If work is being handed in late due to an excused absence from class – please indicate that on the top of the paper by writing the word “absent” and the date of your absence. Unless specified by you, I will assume the assignments are late.
- If you are absent for one school day, all work that was due on that day will be due immediately upon your return. This includes tests and quizzes. Work that was assigned prior to your absence is due the day you return to class. Work for multiple days of absence must be completed within 5 days upon your return to school.

Academic Geometry Unit Plan

Unit 1: Describe and Identify the three undefined terms, Understand Segment Relationships and Angle Relationships

Unit 2: Work with reasoning and logic to help formulate introductory proofs

Unit 3: Use parallel and perpendicular lines to compute and prove angles

Unit 4: Identify and Describe Properties of Triangles and Prove Triangles Congruent

Unit 5: Identify and Explain Line segments within triangles, and Determine Triangle Inequalities

Unit 6: Use proportions and similarities to solve for missing dimensions of polygons

Unit 7: Solve problems involving right triangles and a brief introduction to right triangle trigonometry

Unit 8: Identify and apply properties of polygons, Identify and apply properties of special quadrilaterals

Unit 9: Identify and apply properties of circles and the segments that interact with a circle

Unit 10: Use formulas to determine area, surface area and volume