Email: crystal.blanton@bourbon.kyschools.us (This is the quickest and easiest way to contact me.)
Contact Times: 2nd period, before and after school
School Phone: (859) 987-2185
Website: www.mrsblantonmath.yolasite.com
Primary Text: Geometry by Pearson Prentice Hall
Credit: 1

**Course Overview**

The word Geometry means “to measure the Earth,” but this course will cover topics much broader than just measuring things. This course begins with an algebra review of linear equations so that student can extend those ideas to parallel and perpendicular lines in the coordinate place. It continues with an introduction to geometry allowing students to explore points, lines, and planes. Students will then use logical reasoning to prove basic geometric truths while building on prior knowledge investigating the concepts on parallelism and perpendicularity in space. Students will explore congruency by identifying the series of rigid motions that maps one figure onto another, paying specific attention to triangles. Students will then begin learning properties and theorems about polygons, by studying quadrilaterals. Students will use the special properties of right triangles to complete an introduction to trigonometry. Thinking will be transitioned to the three dimensional world by studying surface area and volume. Students will compare and contrast congruent and similar polygons through the study of the relationships within similar polygons. The course will allow students to investigate the relationships formed by circles and their properties. Students will construct basic geometric figures. Lastly, Students will transform figures in the coordinate plane through a series of rigid motions. **All Topics will be covered, evaluated and assessed as the year progresses.**

**Course Outline**

Unit 1: Coordinate Geometry
Unit 2: Foundations of Geometry
Unit 3: Logic and Proof
Unit 4: Triangle Segments and Congruence

Unit 5: Quadrilaterals
Unit 6: Similarity
Unit 7: Right Triangles and Trigonometry
Unit 8: Area
Unit 9: Surface Area and Volume
Unit 10: Circles
Unit 11: Constructions
Unit 12: Transformations

**Course Materials**

**You will need to bring the following materials with you to class each day:**

Pencils and erasers. Pencils ONLY will be used.

Loose-leaf paper and 1.5 inch 3 ring binder

Calculator – a TI-84 graphing calculator is recommended – I have a class set but you will need a calculator for homework

Graph paper

You may choose to have your own ruler (cm and in) and protractor

**Course Policies**

*Absences and Makeup Work:* When you return from an absence, you are responsible for the following:

* Turning in any homework that was due the day(s) of your absence. (Please turn in any assignments directly to me. DO NOT lay them on my desk!)
* Reading and completing the notes section or other material that was used as a resource during your absence. You may get the notes from the class website [www.mrsblantonmath.yolasite.com](http://www.mrsblantonmath.yolasite.com) or you may borrow them from a classmate.
* Getting the homework assignment(s) you missed from the class website and updating your class notebook.
* Turning in your makeup work.
* Borrowing and copying any notes that you may have missed.

You have as many days as you were absent to turn in missed assignments. However, you should turn in at least one makeup assignment as well as the current assignment each day until you are caught up. If you are absent only on a test day you will be expected to make up the test on the day you return to class. If you are absent any more days, you will have as many days as you were absent to make up the test. Makeup tests will be taken outside of regular class time.

*Classroom Rules/Expectations:* Geometry is a class in which problems are solved in the same ways that mathematicians and other professionals who use mathematics solve problems. Therefore, you will be expected to act like professionals.

Be responsible for your work. Bring supplies and homework every day.

Be in your assigned seat ready to work when the bell rings.

Cell phones, earbuds, and other technology should remain off and out of sight during class unless given specific permission by the teacher. There may be days when we will use these as learning tools so you will be allowed to use them on those days only.

Seek additional help if a topic seems difficult or requires alternative approaches to assist in your understanding. Please do not wait until your grade drops to seek help. If a topic seems difficult, ask for help! I would be happy to help you before or after school!

*Homework Policy:* Homework will be assigned almost every school day (including over weekends) in order to allow you to explore and practice what you are learning. Most homework has one or more of the following purposes:

*Practice* reinforces the learning of material already presented in class and helps you master skills.

*Preparation* provides supporting information—history, skills, definitions—for what’s forthcoming; it will help when new material is covered in class.

*Extension* or elaboration involves the transfer of previously learned skills to new situations.

*Integration* asks you to apply skills and concepts to produce a single product.

Unless otherwise specified, homework will be due the following school day at the beginning of the period. For all homework:

* Show all calculations and work, even if you do it in your head or on a calculator.
* When you get stuck on a problem, solve it as far as you can, then write a short explanation of your difficulty.
* Use your class notebook as a resource.
* Late assignments will be accepted, but a penalty will be incurred.
* No homework or makeup work for a unit will be accepted after a test day.

**Unit Remediation for BCHS**

Assignment redo and test retakes are provided in order for students to show mastery of content.

Students must attempt to take an exam if they are present on the day the exam is given. Students are required to attend tutoring and/or complete all missing assignments in the unit prior to retaking an exam. Students must do test corrections to be allowed to retake. Students are allowed to retake an exam two times in any given unit. Students will receive the highest score of their attempts. Students have ten (10) school days to retake assessments.

**Grading Policy**

*Grade Distribution:* Quarter grades will be calculated as follows: 60% will be determined by assessments, 40% by assignments. Your midterm and final exam will each be worth 10% of your course grade. Each quarter will be worth 20% of your course grade.

*Types of Assessments:* Tests will be given at the end of each unit and will consist of multiple choice, short answer, and reteaching questions. Quizzes and learning checks will be given when appropriate. Projects may be assigned throughout the course.

*Class Notebook:* You will be required to keep a notebook (or binder) containing definitions, explanations, and examples given in class; paperwork; investigations and other long-term projects. It should be organized, and each section should be labeled. Materials should be placed in each section in chronological order. This syllabus should be placed in the front of our notebook. Use binder dividers to divide your notebook into units so that you can easily find your materials.

*Grading Scale*

90-100% A
80-89% B
70-79% C
60-69% D
0-59% F

\*This syllabus is subject to change at the discretion of the teacher.\*

**Student Information Sheet**

**Course\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_**

*Signature(s):* Discuss this Geometry syllabus with your parent(s) or guardian(s). Please sign and return to me by August 14th or before. I am looking forward to working with you this year.

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Student), have read, understand, and accept the Geometry course syllabus and course expectations.

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Parent/Guardian), have read, understand, and accept the Geometry course syllabus and course expectations.

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Student’s Signature Parent’s Signature

Parent/Guardian(s):

Please provide the following information so that I may easily contact you throughout the school year concerning your student’s progress in my classroom. Please feel free to contact me via email crystal.blanton@bourbon.kyschools.us or telephone (859) 987-2185 at any time. I prefer to be contacted via email in that I will be able to respond to your concern more quickly, but will also return phone calls after school ends.

Thanks,

Crystal L. Blanton

Mathematics Teacher

Bourbon County High School

Parent/Guardian Name(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Daytime Phone:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email address:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_