
Good Morning! Today is Friday, 11 Aug 2017.

Everyone come in, go to the back of the room, and find your name and number on the list. Check the spelling of your name. Let me know if it is not correct.

Cover your number with your phone.

Next find the same number on your desk and have a seat.

Today we are going to discuss my syllabus, and what I expect in my class every day.

Good Morning! Today is Friday, 11 Aug 2017.

Homeroom Topics

Turn in papers - 6 forms need to be returned to me ASAP.

Emergency Cards (with 2 different phone #s), Handbook Signature Pages, Residency Form, Field Trip Form, and Lunch Forms (2). Donuts or something if I get them all tomorrow.

Agenda Books - Put your name it in, hall pass, don't rip out pages.

Good Morning! Today is Friday, 11 Aug 2017.

Homeroom Topics

Thank you for turning in your forms.

Now we are going to review some important parts of the
Walton County School District Code of Conduct.

You and your parents need to sign and return 3 pages that go
with the WCSD Code of Conduct.

(Review Code of Conduct Document)

Remind 101

New text message to: 81010

For the message, use the following class codes:

- 1st Period Geometry – @bargeo1
- 2nd Period Geometry – @bargeo2
- 4th Period AP Statistics – @barnapstat
- 5th Period Geometry – @bargeo5
- 6th Period Geometry – @bargeo6

**Geometry Honors
Mrs. Barnhart**

Email: barnhartc@walton.k12.fl.us
Website: swhsbarnhart.weebly.com
School Phone: (850) 622 – 5020 ext. 4323

*Students and parents: Please sign that you have read and understand this information.
Small signature page attached.*

Included in this packet:

- Materials (things needed to succeed)
- Classroom Rules
- Classroom Procedures
- Grades
- Tutoring / Office Hours
- Course Overview
- Remind 101
- Student Learning Goals
- School Calendar

Things you must have to succeed:

- 1 - 1 inch 3 ring binder
- 12 dividers
- Loose leaf notebook paper
- Plain copy paper
- ¼ inch grid graph paper
- 100 3x5 index cards
- Pencils (#2) and erasers
- Colored Pens (preferably red/blue)
- Highlighters (5 pack – pink, orange, yellow, green, blue)
- Scientific calculator (preferably a TI-30xa)
- Protractor
- Ruler
- Compass

Classroom rules

1. Follow directions.
2. Be prepared for class every day.
3. Be respectful.
4. No food, drinks, cursing, putdowns, or grooming.
5. All other school and district policies and procedures.

Questions???

Pass out
red paper

Classroom Procedures:

Assignments will be given daily. All assignments will be graded for completeness by the teacher and checked for accuracy by the student. A homework quizzes will be given throughout the school year. All work must be shown and **ALL** problems must be **attempted** in order to receive credit. All assignments must be kept in a notebook in chronological order. You will keep homework and notes in your binder. **Notebooks will be graded with Notes Quizzes.** Notes Quizzes are 4-5 questions and are open notes, not open book. Students must use their **own** notebook for notebook quizzes.

Other quizzes may be given on any day. They may or may not be announced. Expect a quiz on any day, and they will not be pop quizzes.

There will be 2 tests per chapter. The first test will be at the half way point of the chapter (and there is no review for this test). The second test will be given upon completion of each chapter and announced at least two days prior to the date given. There will be one review day prior to the chapter test. **Students who are absent for test review must take a previously announced test on the assigned date. Students who are absent the day a previously announced test is given must make the test up the day they return to school. Plans must be made to take the test before or after school. You may not miss a second day of class in order to make up a previously missed test.**

Students who are absent are responsible for getting their makeup work and turning it in within one day after an absence. Any work turned in past this deadline will not receive credit. You must also turn in an excuse note to the office. (Please see the student handbook on page 14 for additional information.)

Project grades will be averaged as major test grades.

Grades

Grading Scale

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

Grade Calculation:

- Daily Assignments & Homework 10%
- Quizzes 40%
- Tests, Notebook & Projects 50%

Grades may be accessed anytime on the parent portal. Please sign-up at the front office and receive your password.

How to Earn 100% on Homework???

You must have everything below to get 100%.
You will lose 10 points for each component missing.

1. Name Header
2. Section Header
3. Bell Ringer
4. Exit Ticket
5. Assignment Header
6. Completed in Pencil
7. Checked in Colored Pen and # Missed at the Top
8. Made Corrections (as needed)
9. Attempted all Problems BEFORE checking as a Class
10. Show all work

| | | |
|---|--|----------------|
| | | John Smith |
| | | 8/15/16 |
| | | 1st Period - 5 |
| ○ | Section 1.1 | |
| | Bell Ringer | |
| | 1. triangle | 2. pentagon |
| | 3. hexagon | |
| | 4. octagon | 5. rhombus |
| | 6. decagon | |
| | Exit Ticket - What is Geometry? | |
| | Geometry is the study of shapes, angles, and measures. | |
| | 1.1 HW p. 8-10 # 2-34 EOE and 66, 70 | |
| | | |
| | | |
| | | |
| | | |
| | | |

Please see Mrs. Barnhart if you have any questions about what is expected on ALL of your homework assignments.

Important Grade Notes

- A comprehensive exam will be given at the end of each 9 weeks and will count as 20% of the quarter average.
- Star Testing will be given three times during the school year. A Diagnostic test, Pre, and Post-test will also be given.
- Algebra I and Geometry are courses that will take the End of the Course Exam which will count as 30% of the entire grade per The State of Florida.

Tutoring / Office Hours

For the first semester, I will be in my office for tutoring on Wednesdays from 2:35-3:00 (or later as needed). For the second semester, I will be available for tutoring Monday-Thursdays from 2:35-3:00 (or later as needed). If students are not able to attend afternoon tutoring, I am also available during 3rd period and before school by appointment only.

Course Overview

Geometry or Geometry Honors is a course that prepares you for the rest of your high school math career, the SAT, ACT, and college. The difference between Geometry Honors and regular Geometry is that more topics are covered in Geometry Honors and in greater depth. We will be using **Big Ideas Math Geometry: A Common Core Curriculum, Houghton Mifflin Harcourt, Rob Larson and Laurie Boswell (authors), 2014.**

The following topics will be covered in Geometry and Honors:

1. Basics of Geometry
2. Reasoning and Proofs
3. Parallel and Perpendicular Lines
4. Transformations
5. Congruent Triangles
6. Relationships Within Triangles
7. Quadrilaterals and Other Polygons
8. Similarity
9. Right Triangles and Trigonometry
10. Circles
11. Circumference, Area, and Volume

After the EOC, the students will complete a cumulative final project. Rubric, directions, and examples will be available during the 4th nine weeks.



GEOMETRY STUDENT LEARNING GOALS

1. CHAPTER 1 – BASICS OF GEOMETRY

Students will prove theorems about lines.

Students will prove theorems about angles.

Students will find a point on a directed line segment between two given points when given the partition as a ratio.

2. CHAPTER 2 – REASONING AND PROOFS

Students will use theorems about lines to solve problems.

Students will use theorems about angles to solve problems.

3. CHAPTER 3 – PARALLEL AND PERPENDICULAR LINES

Students will prove the slope criteria for parallel lines.

Students will prove the slope criteria for perpendicular lines.

Students will find equations of lines using the slope criteria for parallel and perpendicular lines.

4. CHAPTER 4 – TRANSFORMATIONS

Students will apply two or more transformations to a given figure to draw a transformed figure.

Students will specify a sequence of transformations that will carry a figure onto another.

Students will describe rotations and reflections that carry a geometric figure onto itself.

Students will use rigid motions to transform figures.

Students will predict the effect of a given rigid motion on a given figure.

Students will use the definition of congruence in terms of rigid motions to determine if two figures are congruent.

Students will explain triangle congruence using the definition of congruence in terms of rigid motions.

When dilating a line that does not pass through the center of dilation, students will verify that the dilated line is parallel.

When dilating a line that passes through the center of dilation, students will verify that the line is unchanged.

When dilating a line segment, students will verify that the dilated line segment is longer or shorter with respect to the scale factor.

Students will use the definition of similarity in terms of similarity transformations to decide if two figures are similar.

Students will explain using the definition of similarity in terms of similarity of transformations that corresponding angles of two figures are congruent and that corresponding sides of two figures are proportional.

5. CHAPTER 5 – CONGRUENT TRIANGLES

Students will apply congruence to solve problems.

Students will use congruence to justify steps within the context of a proof.

Students will prove theorems about triangles.

Students will use coordinate geometry to prove simple geometric theorems algebraically.

Students will use congruence criteria for triangles to solve problems.

Students will use congruence criteria for triangles to prove relationships in geometric figures.

Students will use similarity criteria for triangles to solve problems.

Students will use similarity criteria for triangles to prove relationships in geometric figures.

6. CHAPTER 6 – RELATIONSHIPS WITHIN TRIANGLES

Students will construct a circle inscribed inside a triangle.

Students will construct a circle circumscribed about a triangle.

Students will solve problems using the properties of inscribed and circumscribed circles of a triangle.

7. CHAPTER 7 – QUADRILATERALS AND OTHER POLYGONS

Students will prove theorems about parallelograms.

Students will use properties of parallelograms to solve problems.

Students will use coordinate geometry to find a perimeter of a polygon.

Students will use coordinate geometry to find the area of triangles and rectangles.

8. CHAPTER 8 – SIMILARITY

Students will represent transformations in the plane.

Students will describe transformations as functions that take points in the plane as inputs and give other points as outputs.

Students will compare transformations that preserve distance and angle to those that do not.

Students will use definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.

Students will use the definition of similarity in terms of similarity transformations to decide if two figures are similar.

Students will explain using the definition of similarity in terms of similarity of transformations that corresponding angles of two figures are congruent and that corresponding sides of two figures are proportional.

Students will explain using properties of similarity transformations why the AA criterion is sufficient to show that two triangles are similar.

Students will use triangle similarity to prove theorems about triangles.

Students will prove the Pythagorean theorem using similarity.

Students will use congruence criteria for triangles to solve problems.

Students will use congruence criteria for triangles to prove relationships in geometric figures.

Students will use similarity criteria for triangles to solve problems.

Students will use similarity criteria for triangles to prove relationships in geometric figures.

9. CHAPTER 9 – RIGHT TRIANGLES AND TRIGONOMETRY

Students will use trigonometric ratios and the Pythagorean theorem to solve right triangles in applied problems.

Students will use similarity to explain the definition of trigonometric ratios for acute angles.

Students will explain the relationship between sine and cosine of complementary angles.

Students will use the relationship between sine and cosine of complementary angles.

10. CHAPTER 10 – CIRCLES

Students will use a sequence of transformations to prove that circles are similar.

Students will use the measures of different parts of a circle to determine similarity.

Students will solve problems related to circles using the properties of central angles, inscribed angles, circumscribed angles, diameters, radii, chords, and tangents.

Students will use or justify properties of angles of a quadrilateral that is inscribed in a circle.

Students will use the Pythagorean Theorem, the coordinates of a circle's center, and the circle's radius to derive the equation of a circle.

Students will determine the center and radius of a circle given its equation in general form.

11. CHAPTER 11 – CIRCUMFERENCE, AREA, AND VOLUME

Students will use similarity to derive the fact that the length of the arc intercepted by an angle is proportional to the radius, and define the radian measure as the constant of proportionality.

Students will apply similarity to solve problems that involve the length of the arc intercepted by an angle and the radius of a circle.

Students will derive the formula for the area of a sector.

Students will use the formula for the area of a sector to solve problems.

Students will give an informal argument for the formulas for the circumference of a circle; the area of a circle; or the volume of a cylinder, a pyramid, and a cone.

Students will use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.

Students will identify the shape of a two-dimensional cross-section of a three-dimensional object.

Students will identify a three-dimensional object generated by a rotation of a two-dimensional object.

Students will use geometric shapes to describe objects found in the real world.

Students will use measures of geometric shapes to find the area, volume, surface area, perimeter, or circumference of a shape found in the real world.

Students will apply properties of geometric shapes to solve real-world problems.

Students will apply concepts of density based on area in modeling situations.

Students will apply concepts of density based on volume in modeling situations.

12. ASSESSED THROUGHOUT TEXT

Students will use the precise definitions of angles, circles, perpendicular lines, parallel lines, and line segments, basing the definitions on the undefined notions of point, line, distance along a line, and distance around a circular arc.

Students will identify the result of a formal geometric construction.

Students will determine the steps of a formal geometric construction.

Students will apply geometric methods to solve design problems.

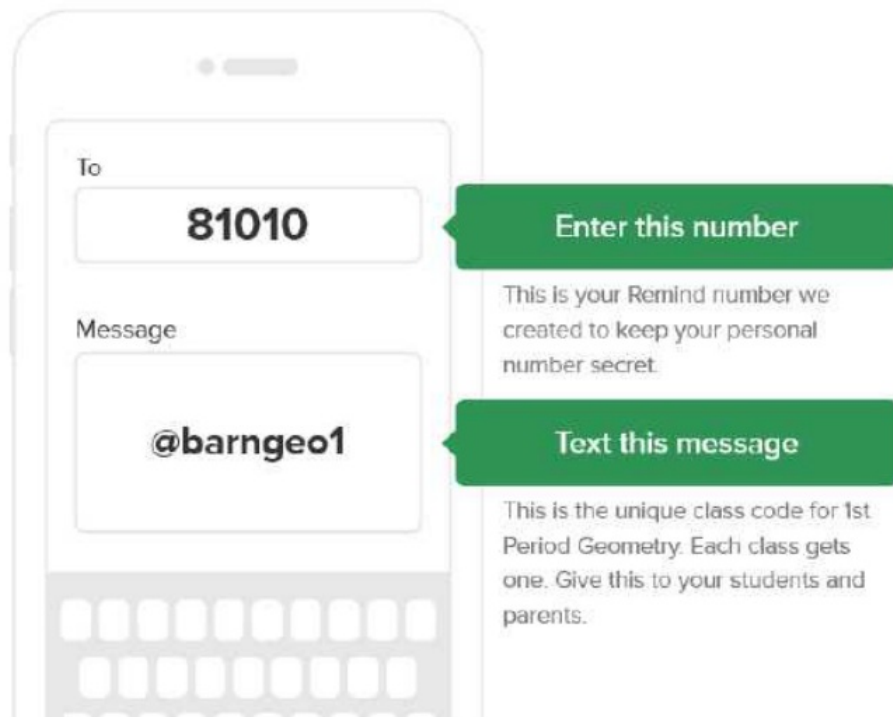
Remind 101

I highly recommend and encourage all students and parents to join my Remind 101. It is not required, but I do give extra credit each nine weeks for student and parent involvement. I use Remind 101 to send reminders for major assignments (not nightly homework). There is also a secure chat feature students can use to ask me questions about anything in class.

It is very easy to join Remind 101. (See instructions below)

All students and parents will use number **81010** as the **TO** number of a text message. Then type in their class code as the message. You can also download the Remind 101 App on your smart phone.

1st Period Geometry – @bargeo1
2nd Period Geometry – @bargeo2
4th Period AP Statistics – @barnapstat
5th Period Geometry – @bargeo5
6th Period Geometry – @bargeo6



Yesterday you completed a 3-2-1 Card. Today I am going to answer the questions you asked me on the cards.

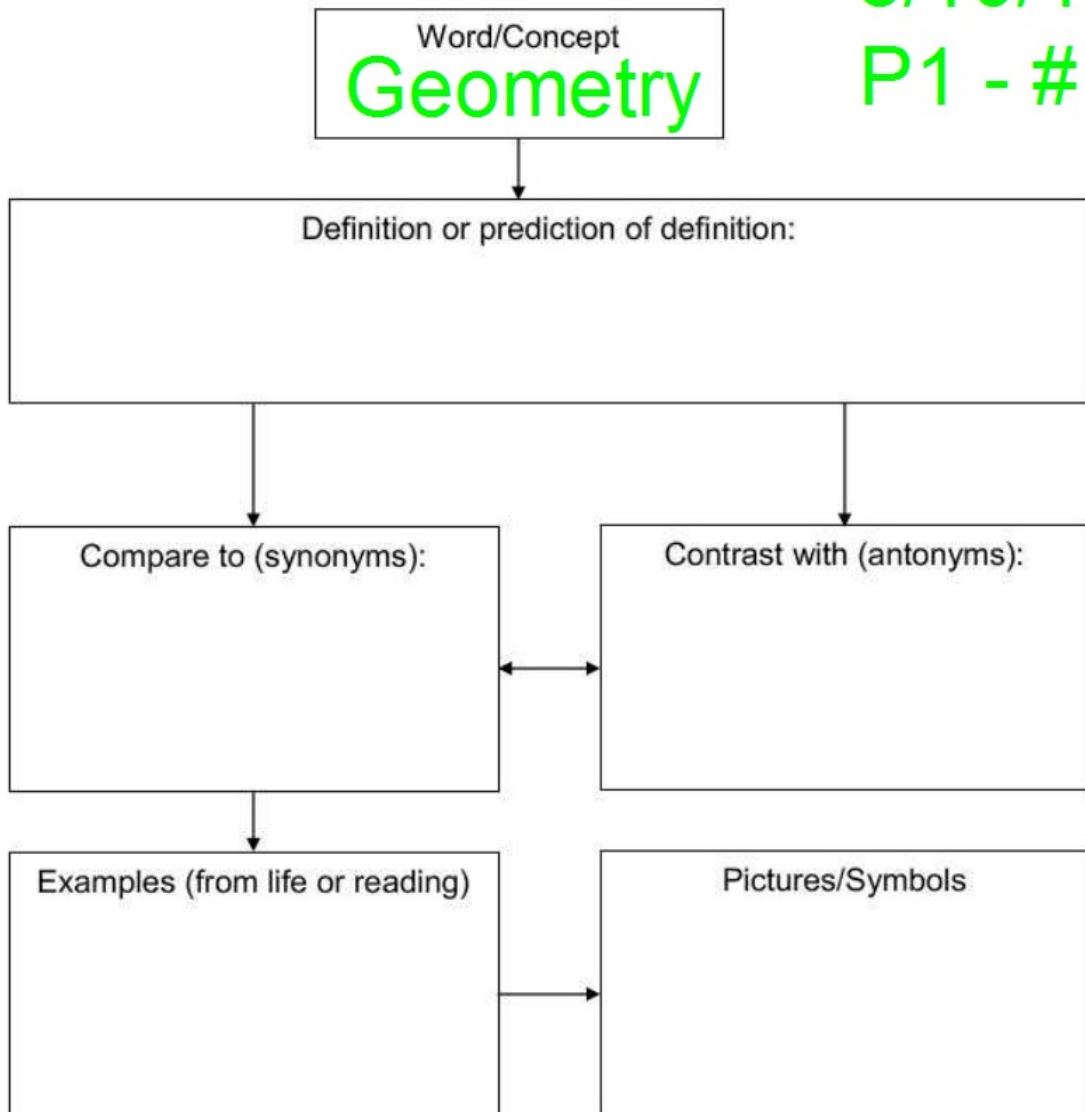
Then, you are going to make a Concept Map about Geometry.

Vocabulary/Concept Map

First Last

8/10/17

P1 - #



Homework

Complete **red** paper and Concept Map due Monday.

Complete and turn in all of your forms to HR teacher.

Bring in copy paper ASAP.

Pre-test Monday and start notes Tuesday.
(More about Pre-Tests on next page.)

AP Stats - You also have the assignment: **Getting to know your text book. Due Mon.**

Monday, you are going to take 2 pre-tests.

The first test is an Algebra 1 test
to make sure you are correctly placed.

The second test is like the Geometry EOC. This test is
used to show how much you learn and grow over this year.
You will take this test again at the end of the school year.

