

Honors Geometry  
Mrs. Bowers

Welcome to the 2010-2011 school year!

***Course Description from NCDPI:***

Honors Geometry demands a more challenging approach to the student's study of geometric concepts. Students will rely primarily on deductive methods of proof in their study of two- and three-dimensional geometric figures. Students will have opportunities to take greater responsibility for their learning. Reasoning skills will be emphasized and students will broaden their use of the coordinate plane. Appropriate technology should be used regularly for instruction and assessment. Honors Geometry is a weighted course. This class will do additional topics, more rigorous topics, incorporate writing, and work at a quicker pace than regular geometry.

**Prerequisites**

- Apply geometric properties and relationships to solve problems
- Use formulas to solve problems
- Define and use linear expressions to model and solve problems
- Operate with matrices to model and solve problems

***Expectations:***

Honors geometry students are expected to master the content as well as demonstrate an intuitive and insightful approach to problems. Students are expected to discover certain concepts independently and cooperatively with their peers. Honors Geometry is a weighted course. This class will learn additional topics, more rigorous topics, incorporate writing, and work at a quicker pace than regular geometry.

***Materials Needed Daily***

- |   |   |
|---|---|
| • one loose-leaf notebook (2-3 inch) and loose-leaf paper | • graph paper   |
| • 2 pencils   | • practice workbook<br>(supplied by the textbook company) |
| • 14 dividers<br>(I have these if you need them)          | • Tracing paper   |
| • completed assignment                                    | • TI-83 plus/TI-84 plus calculator                        |
| • textbook (when required)                                |   |

***Classroom items***

(we use these items if you care to donate)

- |                   |                  |
|-------------------|------------------|
| • kleenex         | • graph paper    |
| • colored pencils | • notebook paper |
| • pencils         | • band aides     |
| • paper           | • hand sanitizer |

**Cell Phones:**

Parents and students need to stay in touch with each other but please read the county policy on cell phone use during school hours. Students are not allowed to use them during the school day whether actively talking on the phone or texting. Be mindful that this misuse causes a tremendous disruption to instruction and can be misconstrued as attempting to cheat on assessments. As such, I will require that purses remain on the floor and that students' hands are not in pockets during class. Thank you for your support with this issue.

### ***Calculators:***

The TI-84 + is the calculator that we will have available for use in the classroom. A graphing calculator (or at the very least a good scientific) calculator is needed for this course. A graphing calculator is not required at this point but students may want to purchase one to spend this year getting comfortable with the technology. Although graphing calculators are expensive, students will be able to use them during their entire high school career. Shop around for the best price in your local office supply stores or on-line.

If you purchase a calculator, ***please bring me the rewards program points box***. TI has a points program for schools that will exchange these points for free equipment.



### ***Classroom Policies and Rules:***

1. Respect yourself, others and school property
2. No food or drink is allowed in the classroom (school rules)
3. Be in your seats ready to work when the bell rings. This means that your pencil should be sharpened, your homework out, and you are beginning to work on the warm up activity.

### ***Make-Up Procedures:***

After an absence, it is YOUR responsibility to get your make-up work. If you are absent on a test/quiz day, you are responsible for making up the test/quiz. See me to schedule a time that fits both of our schedules. Refer to our school policy.

### ***Grading Practices:***

A test is your opportunity to show that you have mastered each objective in the unit. In order to master each objective, it is imperative that you practice the skill by completing all daily class work/homework assignments.

#### ***Grading:***

Tests	60%
Quizzes	15%
Homework	15%
Alternative Assessments	10%

### ***Alternative Assessments:***

Alternative assessments can include projects, writing assignments, portfolios, class work activities, and cumulative reviews. Depending on time, we will try to have as many alternative assessments as possible.

### ***Geometry Curriculum\*\****

Tools of geometry	Area
Reasoning & proof	Similarity
Parallel & perpendicular lines	Right triangle trigonometry
Congruent triangles	Surface area & volume
Relationships with triangles	Circles
Quadrilaterals	Transformational geometry

### A Special Note to Students and Parents/Guardians:

The skills in geometry are very sequential. It is imperative that students have mastery of each objective to proceed to subsequent topics. I will do everything I can to help your child be successful. Your help is needed in three areas: attendance, homework and parental support.

- 1) Attendance is crucial in every subject but is vital to the learning process in math. I urge you as parents to do everything you can do to assure your child is in math class every day. The block schedule that we use moves quickly and your child will miss many objectives after a single absence.
- 2) Homework is a requirement in this course, not an option. Students cannot be successful without practice. Expect your child to spend 30 to 45 minutes on math each night.
- 3) If possible, please e-mail me so that I have your e-mail address on file. Please include your child's name in the message.

If you would like to discuss your child's progress, please feel free to call me at school or e-mail me. You can reach me during my planning time, before or after school given the following information. I welcome the chance to meet you and work with you to make this a successful year for your child. By signing and returning the portion of this document below, you acknowledge receiving and reading the information provided on the previous pages.

Hilary Bowers  
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Phone: 732-6133 ext. 20505  
Room # 402  
Planning: 3<sup>rd</sup> Block (12:50 - 2:15)

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(Please return this portion)

Mrs. Bowers

Honors Geometry

Student Name (please print): \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Phone number where the parent can be reached during school hours \_\_\_\_\_

Parent's E-mail address if available \_\_\_\_\_

Is there anything that you feel I need to know about your child to ensure his/her success in Honors Geometry?