

Geometry Big Ideas Math

Course Expectations 2016-2017

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Course Description: Geometry is the branch of mathematics that deals with the measurement, properties, transformations, and relationships of points, lines, planes, angles, circles, polygons, surfaces, and solids. With this course we hope to increase the student's knowledge of, and ability to visualize, two and three-dimensional figures. This course also includes units on logic, trigonometry, and vectors. Grade C or better in Algebra I to advance to Geometry.

Classroom Expectations:

1. Come to class PREPARED every day. Each day you come to class you should have:

- something to write with
- something to write on
- your calculator
- your laptop (charged)
- Your completed assignment (when assigned)

2. Be RESPECTFUL. Respect means many things to many people. In this class, I am trying to prepare you for the way that you will need to act post-high school. This means that you need to act professional, try to have good manners, and treat people the way that you would like to be treated. It should go without saying that doing anything to purposefully hurt someone else's feelings is unacceptable and will not be tolerated. If you hurt someone's feelings on accident, the appropriate response is to have an honest conversation about what happened and apologize. Own your mistakes, accept the consequences of your actions, and be kind.

3. Be HONEST. Honest effort will be the biggest dictator of your final grade. Give an honest effort in this class daily. Live up to your full potential.

4. Use down-time wisely. When you finish the activity that you are working on, that does not mean it's time to email all of your friends or play games on the computer. There are a multitude of activities around the room that you can try for fun. Things like work for other classes, reading, doodling, coloring, Khan Academy, trying puzzles, classroom games, and even driving the BB-8 around are things that you can do in-between tasks.

5. Be PREPARED to handle the RESPONSIBILITY: This course will be taught with a college mentality. Homework will not be turned in for credit. Your grade will be determined from standards assessments. Make sure you are ready to handle the workload and the responsibility that comes from doing assignments geared towards practice and learning material rather than boosting your grade. The grade you earn is yours and yours alone.

Absence Policy: If you miss a class, it is your responsibility to ask me about what you missed. There is an absent folder in the back of the room where you can pick up any paperwork that you missed. Please remember that if you are going to be gone for an excused absence, you need to turn in your work before you leave, not after.

Cheating: Cheating will not be tolerated. You will be given a referral, I will call home, and your standard(s) that you cheated on will be reset to 0. In the past, students have been dropped from my class for cheating and had to retake the entire class. Don't do it.

Availability: I am available before (8:00-8:15 am) and after school (3:35-4:00 pm) for extra help. There will be math teachers here every morning at starting at 7 am, so you can always come in and get help. I encourage all of my students to get help and ask questions when needed. If arrangements cannot be made during these hours, talk to me and I will find a time to meet with you. If you need to contact me outside of school, messages can be left in the office and I will return your call as soon as possible. I can also be reached at my e-mail address.

Classwork:

Assessments: Your grade will be based on your scores from your assessments over the essential standards. Non-essential standards will NOT be included in your grade, but it is important to follow along as the concepts build on one another.

You will be allowed to use your Theorems and Postulates sheet with notes on your assessments.

The following are the rules regarding reassessments:

- **You cannot receive help on a standard and reassess that standard on the same day**
- **You can only reassess one standard per day**
- **You must show some evidence of work done outside of class to come in for a reassessment**
- **You must fill out a reassessment form to set up a time with me**

Projects and Assignments: There will be various projects and activities throughout this class. The projects are designed to help you become proficient in your standards and create connections between mathematics and other concepts outside of the classroom. I am not planning on making these projects part of your grade, but I do expect you to participate fully and do your best. The more effort you put into a project, the more connections you will make, and you may even surprise yourself with what you are capable of. If you are not interested in a project, please let me know immediately and we can talk about other options.

The following is how I will compute your score for a standard: Each assessment will have a set of problems that cover one standard. I will use a pre-determined rubric, which you will have access to before the assessment, that will determine your proficiency level for that standard. I will assess each standard multiple times so that you have the opportunity to increase your grade without reassessments. Grades are NOT averaged over assessments, I simply take the most recent grade for that standard.

Grading Scale and Final Grades

<i>Advanced</i>	<i>Proficient</i>	<i>Emerging</i>	<i>Novice</i>
	89-88% B+	79-78% C+	69-68% D+
100-93% A	87-83% B	77-73% C	67-63% D
92-90% A-	82-80% B-	72-70% C-	62-60% D-

You will not move on to your next math class unless you are proficient on 80% or more of your essential standards.

Here is an example of the rubric that I will be using to grade each standard, so you can get an idea of what your score means. All rubrics are available on my website www.tinyurl.com/stehnomath

Geometry - Standard 1.B - Introduction to Polygons				
Score		Achievement Indicators		Example Exercises
Advanced 10	In addition to 8.0, the student demonstrates in-depth inferences and applications that go beyond what is taught.			
	9.5	Create and solve a real-life scenario involving a polygon on the coordinate plane and explain your process		Guidelines
		Make and explain connections to other standards and concepts		
		Solve more advanced problems using the midpoint and distance formula		1.B Extension
		Research "Taxi Cab Geometry." Compare this to distances found using the distance formula in the context of a problem you create.		Google Search--Taxi Cab Geometry
Advanced 9	In addition to 8.0, partial success at 10.0			
Proficient 8	8.5	In addition to 8.0, addition to topic evident but lacks depth		
	I can apply midpoint and distance formula.			
	Student Will:	Use the midpoint formula		Midpoint formula (Khan)
				Equation practice with midpoints (Khan)
		Solve problems using the distance formula		
		Find perimeters and areas of polygons in the coordinate plane using the distance formula and perimeter and area formulas		Area and perimeter in the coordinate plane 1 Area and perimeter in the coordinate plane 2 Quadrilateral problems on the coordinate plane (Khan)
Emerging 7	7.5	No major errors or omissions regarding 7.0 content and partial success at score 8.0 content		
	I can do the following:			
	Student Will:			Polygon vocabulary
		Classify polygons as triangles, squares, and rectangles.		Number of sides in polygons
		Use the distance formula to find distance on the coordinate plane		Identify and classify polygons
				Distance formula (Khan)
Novice 6	6.5	Partial success at score 7.0 content and major errors or omissions regarding score at 8.0 content		Distance between points on the coordinate plane (Khan)
		With help, partial success at score 7.0 content and score 8.0 content		
	5.5	With help, partial success at score 7.0 content but not at score 8.0 content		
	0	Even with help, no success		

Frozen List and WIN: I will update the frozen list once a week, by Monday morning. Please do not ask me to update the frozen list more than that.. I will only put you on the frozen list if you are missing **more than 1 assignment from a standard that you are not proficient in**. If I have made attempts to get you to come work with me before or after school and you haven't showed up, or if you are consistently missing work, then I will add you to the WIN list for the week as well. I will send you and your parents an email if I choose to add you to the WIN list, and I expect you to find a way to be there. **It is an expectation that if you are on the WIN list, you WILL be there.**