

# GEOMETRY

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## COURSE DESCRIPTION

Geometry usually follows Algebra I and precedes Algebra II. In Geometry, many of the concepts from Algebra I are employed to present, develop and use concepts involving figures in a plane (such as triangles, squares, and other polygons), in space (such as cubes, rectangular solids and prisms), and other solid figures. The entire course is a development of a logical approach to reasoning and recognition of patterns that can be applied to daily life. Successful completion leads to Algebra II.

## STANDARDS: ALIGNMENT TO THE IOWA CORE CURRICULUM

Understands and applies concepts of coordinates, transformation and trigonometric relationships.

## CONTENT: WHAT ARE WE GOING TO DO IN THIS CLASS?

<u>Topics to be covered</u>	
Chapter 1 - Basics of Geometry	Chapter 8 - Similarity
Chapter 2 - Reasoning and Proofs	Chapter 9 - Right Triangles and Trigonometry
Chapter 3 - Parallel and Perpendicular Lines	Chapter 10 - Circles
Chapter 4 - Transformations	Chapter 11 - Circumference, Area and Volume
Chapter 5 - Congruent Triangles	Chapter 12 - Probability
Chapter 6 - Relationships Within Triangles	
Chapter 7 - Quadrilaterals and Other Polygons	

## SUPPLIES

- Big Ideas Geometry A Common Core Curriculum Textbook and Student Journal
- Scientific Calculator, or TI-83/84
- 3 ring Binder (with loose leaf paper) or spiral notebook(s)

## INSTRUCTIONAL STRATEGIES

Instructional strategies that will be used in this course, but are not limited to are: direct instruction, active participation, graphic organizers, presentation, cooperative learning, probing questions, questioning strategies, student projects, technology, note taking, and modeling.

## GRADING & ASSESSMENTS

**Summative** - There will be chapter & semester tests. Tests will always be announced in advance. Tests will be worth 100 points. Although the test is worth 100 points this portion of your grade will be worth 70% of your grade.

**Formative (Quizzes)** - These may be announced or unannounced. Students may or may not be allowed to use notes on quizzes. If you miss a quiz you must make it up by the day of the test. If you don't make it up by then you will receive the same grade that you received for the test. Formative assessments will be worth 15% of your grade.

**Self (Homework Completion)** - Homework will be assigned on a daily basis. Points will be given for completed homework and this will be worth 15% of your grade. You will have until the day prior to the test to turn in any missing assignment for full credit. All homework must be turned in for an opportunity to earn more points on a retake exam. The only exceptions to this rule are when the student has an excused absence. Students will have the opportunity to check their answers on homework daily and ask questions if needed. The book is also online for your convenience at [www.clever.com/in/dbqschools](http://www.clever.com/in/dbqschools).

**Grading Scale:**

93.0 - 100%	A	83.0 - 86.99	B	73.0 - 76.99	C	63.0 - 66.99	D
90.0 - 92.99	A-	80.0 - 82.99	B-	70.0 - 62.99	C-	60.0 - 62.99	D-
87.0 - 89.99	B+	77.0 - 79.99	C+	67.0 - 69.99	D+	Below 60%	

**CLASSROOM EXPECTATIONS**

Respect school property, others and their property, the right of others to learn, the teacher, and yourself. The three core values that we use throughout the school apply in my classroom: engagement, respect, and integrity. Lastly, cell phone use will not be allowed. The school policy in your handbook will be followed.

*Additional guidelines:*

1. Know the student handbook. If it is in there, it applies in here.
2. Take care of personal business between classes.
3. Be in your seat ready to work when the bell rings.

**ABSENCES**

- If you miss class FOR ANY REASON it is your responsibility to get the assignment. Be sure to pick up anything that you may have missed when you were absent.
- If you miss class on a test/quiz day, you will be expected to take the test/quiz on the day you return to school. If you miss the day before a previously announced test/quiz, you will be expected to take the test/quiz with the rest of your class. If you miss more than one day I will work with you to make other arrangements.
- Problems with absences (excused or unexcused) or tardies will be handled according to the Senior High School attendance policy.

**RESOURCES: GETTING HELP**

Working together is strongly encouraged. (Copying is not.) You will find that you can learn a lot from each other. If you are having trouble with geometry you need to get help IMMEDIATELY. Remember I am here to help you if you want to be helped. Feel free to see me if any problems arise or you need any extra help. Also the Math Lab is available in ROOM A307 for you to get extra help. The book is also online for your convenience at [www.clever.com/in/dbqschools](http://www.clever.com/in/dbqschools) as well as the whole world-wide-web.

**COMMUNICATION**

The best way to contact me with any questions or concerns is via email ([amcdonough@dbqschools.org](mailto:amcdonough@dbqschools.org)). You may also reach me by phone at 552-5597. Messages left will be returned as soon as possible. I also update Powerschool after every test or quiz we take within a day or two of the assessment. It is a great way to keep track of your or your child's grade.