

GEOMETRY

Mr. Struck

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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

All basic Core Conceptual Standards will be addressed, as well as, many of the Core Practices..

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
- Workbook and Student Companion
- Scientific Calculator, or TI-83/84
- An Organization and Storage system for homework and worksheets (Used ONLY for Geometry)
- A pencil with eraser (not a pen)

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, modeling.

GRADING & ASSESSMENTS

Summative - These will be chapter & semester tests. Tests will always be announced in advance. They will usually be worth 100 points.

Formative (Quizzes) - These may be announced or unannounced and usually worth 20 points. 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 a zero.

Self (Homework Completion) - Homework will be assigned on a daily basis. Points will be given for completed homework. Any assignment that is turned in late will result in penalties or no completion points for that assignment. 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.bigideasmath.com.

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

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.
4. Be aware of deadlines and time limits. Tests need to be completed before you leave the classroom!

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.bigideasmath.com as well as the whole world-wide-web. Finally, many teachers have donated time to help students during the day. See the poster of those available times.

COMMUNICATION

The best way to contact me with any questions or concerns is via email (sstruck@dbqschools.org). You may also leave a message by phone at 552-5591. Messages left will be returned as soon as possible. Generally I update Powerschool after every test or every other week. It is a great way to keep track of your progress.