Geometry
Course Outline

Teacher Information

Teacher: Mr. Brad Jones
Office Hours: 30min before and after school or by appointment
School e-mail: brad_jones@isdschools.org
Website: sites.isdschools.org/bjones
Twitter: @THSMrJones

Classroom Rules & Procedures

- ✓ Be prompt and prepared for class.
  - Bring supplies to class (book, paper, pencil, pen, notebook,…).
  - Stay seated throughout class.
  - Come rested and ready to work.
  - Go to the bathroom before class.
  - **Do not ask to leave the classroom.** Once students enter the classroom, they will not be allowed to leave for the first 15 minutes or during the last 10 minutes of class. Our goal is to protect instructional time and to cut down on the number of kids who are asking to leave at the beginning of class or the end of class. Student's lack of preparation for not having their books or needing to use the restroom will not be an excuse. Only in extreme emergencies will that student be allowed to leave. Be Respectful and Responsible
- ✓ Do not go behind Mr. Jones desk.
- ✓ **No food in the classroom. Water must have a secure lid**
- ✓ Do not write in/on the textbooks, desks or walls.
- ✓ Give 110% at all times.
- ✓ **Ask Questions!!!!!** - If you need extra help or don't understand something it is your responsibility to let me know.
- ✓ Have fun and enjoy math.
- ✓ The bell does not dismiss you, Mr. Jones does.
- ✓ **No cell phones in class**- bell to bell and no you cannot use them as a calculator
  - ❖ Rules and Procedures may be added or omitted at Mr. Jones discretion.

Assignment Guidelines

- ✓ Papers with no name will not be graded.
- ✓ All work is to be done in PENCIL and grading in PEN.
- ✓ It must be legible and easy to follow. Don't run problems together. If I can't read it, it's wrong.
- ✓ Show all work. You must copy the problem (except word problems) and show enough steps to communicate your thought process. Partial credit may be given at any time. Using an answer book is considered cheating.
- ✓ No work will be accepted with a ragged edge from a spiral notebook.
- ✓ Multiple pages are to be stapled together and all pages should have the student's name and date

Late work/ Attendance Policy

- ✓ Late work will not be accepted after the unit test has been given.
- ✓ You are responsible for getting the work from the website for when you were gone.
- ✓ A student must be gone two or more days right before the test in order to reschedule the test. You must reschedule the test in a timely manner or I will reschedule it.
- ✓ Homework quizzes will be made up the next class time.

Test Retakes

- ✓ If you earn below a 70% on a test, you have the option of retaking it. It must be done before school within a week of the original testing date. If the class retakes the test together you cannot retake the test again.

Classroom Management Steps

- ❖ Verbal warning/change of seat
- ❖ Buddy room/Recovery room
- ❖ 30min detention.
- ❖ Principal Referral.

Grading

100 – 93 %	A	82 – 80%	B-	69 – 67%	D+
92 – 90%	A-	79 – 77%	C+	66 – 63%	D
89 – 87%	B+	76 – 73%	C	62 – 60%	D-
86 – 83%	B	72 – 70%	C-	Less than 60	F

- ❖ Grades will include: Daily Homework, Quizzes, Test, Notebook, Participation, Research Papers, and Projects. Others may be added at Mr. Jones discretion.

Skills and/or Competencies to be covered

Text: 2008, McDougal Littell: Geometry

- ✓ Essentials: Points, Lines, Planes, Segments, Congruence, Midpoint/Distance Formulas, Measuring/Classifing Angles, Angle Pair Relationships, Polygons, Perimeter, Circumference, Area
- ✓ Reasoning and Proof: Inductive, Conditional Statements, Dudictive Reasoning, Postulates and Diagrams, Properties from Algebra, Segments and Angles, Angle Pair Relationships
- ✓ Parallel and Perpendicular Lines: Pairs of Lines and Angles, Parallel Lines and Transversals, Prove Lines are Parallel, Slope of Lines, Equations of Lines, Prove Theorems with Perpendicular Lines
- ✓ Congruent Triangles: Triangle Sum Properties, Congruence and Triangles, Side-Side-Side, Side-Angle-Side, Hyptonuse-Leg, Angle-Side-Angle, Angle-Angle-Side, Using Congruent Triangles, Isosceles/Equilateral Triangles, Transformations
- ✓ Relationships with Triangles: Midsegment Theorem and Coordinate Proof, Perpendicular Bisectores, Angle Bisectors of Triangles, Medians and Altitudes, Inequalities of Triangles, Inequalities in Two Triangles, Indirect Proofs
- ✓ Similarity: Ratios, Proportions, Geometric Mean, Similar Polygons, Similar with Angle-Angle/Side-Side-Side/Angle/Angle/Angle, Proportionality Theorems, Similarity Tranformations
- ✓ Right Triangles and Trig: Pythagorean Theorem, Converse of Pythagorean Theorem, Similar Right Triangles, Special Right Triangles, Tangent Ratio, Sine/Cosine Ratios, Solve Right Triangles
- ✓ Quadrilaterals: Angles of Polygons, Parallelograms, Quadrilateral is a Parallelogram, Rhombuses, Rectangles, Squares, Trapeziods and Kites, Special Quadrilaterals
- ✓ Properties of Transformations: Translate, Vectors, Matrices, Reflections, Rotations, Compositions of Transformations, Symmetry, Dilations
- ✓ Properties of Circles: Tangents, Arc Measures, Chords, Inscribed Angles and Polygons, Angle Relationships, Segment Lengths, Equations
- ✓ Measuring Length and Area: Triangles, Parallelograms, Trapeziods, Rhombuses, Kites, Perimeter/Area of Similar Figures, Circumference and Arc Length, Area of Regular Polygons, Geometric Probability
- ✓ Surface Area and Volume of Solids: Explore Solids, Prisms, Cylinders, Pyramids, Cones, Spheres, Similar Solids
  - ❖ Topics may be added or omitted at Mr. Jones discretion.