

Decatur High School

Geometry Syllabus

Instructor & Location: MR. FLEMONS (114)

Math Department Mission Statement: We in the Decatur High School Mathematics Department will teach our students lifelong problem solving skills through the understanding and appreciation of a diverse body of mathematics and how it relates to the world in which we live.

Math Department Instructional Goals:

- Students will use technology appropriately in order to facilitate the understanding and solving of math problems.
- Students will use the strategies they learn in math classes to solve problems across the curriculum.
- Students will develop the study skill necessary to help them retain and use mathematical concepts throughout their lives.

Course Overview: Geometry provides students with a way to link their perceptions of the real world with the mathematics that allows the student to solve a variety of problems they will encounter in higher level mathematics as well as in their lives. Through the use of the inductive/deductive method of reasoning, the students will be provided with a broad view of geometry and its applications that reinforce important geometric concepts such as congruence, similarity, parallelism and perpendicularity.

Prerequisite: Algebra One

Course Outline:

- I. Inductive reasoning
- II. Introduction to Geometry Terminology
- III. Introduction to Geometric Tools
- IV. Line and Angle Properties
- V. Triangle Properties
- VI. Polygon Properties
- VII. Circles
- VIII. Transformations
- IX. Area and Volume
- X. Pythagorean Theorem
- XI. Similarity
- XII. Trigonometric Ratios and Right Triangles
- XIII. Deductive Reasoning

Textbook: Serra, Michael. Discovering Geometry an Inductive Approach. Key Curriculum Press, Berkley, California, 1997. ISBN: 1-55953-200-9 PRICE: \$47.50

Materials needed: 3 ring loose-leaf Notebook, Notebook Paper, Graph Paper, Pencil, Compass, Protractor, Ruler, (Calculator Recommended).

Calculator Policy: Students with a photo ID may borrow a calculator to use in class. Any student who uses a calculator must take full responsibility to replace it if the calculator is lost, stolen, or damaged in any way. Calculators may not be taken home. Students are encouraged to purchase a calculator for home use.

Tutorial: It is very important that all students comprehend the math concepts in a timely manner. A Math Teacher Tutorial Schedule is provided in order for students be aware of the opportunities to get assistance outside of class time. Please make time to visit me or any other math teacher during the designated times given here:

Mathematics Tutorial Schedule Spring 2006

Please note that morning sessions are from 8:00AM until 8:25 AM. Morning sessions require an appointment with the teacher and a pass to get into the building. Afternoon sessions are from 3:40 PM until 4:15 PM. Administrators will clear the school building at 4:15 PM each day, so make arrangements for transportation.

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning (8:00 - 8:25) Hall Pass Required	Shrader (V202) (7:30-8:25 each morning)	Shrader (V202)	Shrader (V202) Gardner (115)	Shrader (V202)	Shrader (V202)
Afternoon (3:40 - 4:15)		Shepherd (110)	Flemons (114) Spadaccini (113) Gardner (115)	Shepherd (110) Flowers (116) Johnson (112) Hudson (308)	

Contact: Please visit <http://www.dhs.cityschoolsofdecatur.com/math> to view my webpage and contact information. The webpage contains pertinent information for this course, and offers parents the opportunity to subscribe to updated information via email. When parents or students can contact me through the website, or send email to **stan_flemons@decatur-city.k12.ga.us** or via written correspondence delivered by the student or parent. Using e-mail or written notice will guarantee immediate response. As a last resort, you may leave a message on my voicemail at **404-370-4420 ext. 208**, however this method of contact will not guarantee immediate response.

Grading Scale: A (90-100) B (80-89) C (75-79) D (70-74) F (below 70)

Grade Distribution:

Tests (Unit Tests, Projects)	40%
Quizzes	20%
EOCT and Final Exam	20%
Homework/Classwork Activities	20%

Homework/Classwork Grade will be based on **1) graded** problems from the daily HW assignments, **2) graded** classwork problems completed during class. This work is graded for accuracy.

Quiz Grade will be based on pop quizzes and announces quizzes throughout the semester.

Test Grade will be based on Chapter Tests. Each graded test must be taken home and signed by a parent/guardian.

Cheating will result in a maximum grade of 50%, but could be as low as a zero, depending on the severity of the offence.

Class Procedures and Policies

All students are expected to adhere to all policies outlined in the student handbook as mandated by Decatur High School.

Attendance: Students must be seated before the bell rings to begin class. Anyone not seated before the bell is considered TARDY and must go to the attendance office for a late pass. Students must remain seated until the last bell to end class, unless given permission to do otherwise.

Leaving Class: A student may leave the classroom **if he/she has a pass from a counselor/administrator** or in case of an illness that requires the student to go home. Otherwise, **Restroom/Water/Locker passes are limited to twice a week, but never during the 1st 10 minutes of class or discussion of a lesson.**

Classroom Rules:

1. FOLLOW DIRECTIONS WITHOUT DISTRACTIONS
2. BE **SEATED BEFORE** THE BELL. **STAY SEATED!!**
3. BRING **ALL MATERIALS** TO CLASS.
4. EYES ON THE TEACHER - **NO TALKING** - HEADS UP!!
5. **NONE OF THE FOLLOWING:** EATING/DRINKING, PROFANITY, PUT-DOWNS, ELECTRONIC DEVICES, THROWING, LEAVING THINGS ON THE FLOOR.

Materials: Textbook, notebook, and pencil are required at each class session.

Taking Notes: Every student must take notes on the lesson for the day. This is necessary in order to do well on the homework assignments and quizzes. The notes must be kept in your notebook, which will occasionally be used for quizzes.

Daily Assignments/HW: Homework and/or classwork will be assigned every day and must be kept in the notebook. After discussion of the lesson, all students are expected to begin on the assignment and work until the end of the period. Classwork is due before you leave class on the day it is assigned. Homework is due at the beginning of class the next day. **Late work is not accepted** without a proper excuse.

The teacher reserves the right to make changes to this syllabus as necessary during the semester.

Decatur High School complies with the state's end-of-course test guidelines, which require administration of EOC tests and documentation of scores on student transcripts.

Decatur High School abides by state law and state regulations regarding Individualized Education Plans (IEP) and 504 plans.