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Course Description: This course is intended primarily for students who have done well in Algebra I and enjoy the challenge of mathematics. It is designed to meet the needs of students desiring a strong mathematical background. In addition to exploring the topics of Geometry (MTH181/MTH182) at a greater depth, students will learn additional concepts such as an introduction to trigonometry and sequences and series. Successful completion leads to Honors Algebra II.

Standards: This course will focus on the following Iowa Core Curriculum domains:

Congruence	Similarity, right triangles, and trigonometry
Circles	Modeling with geometry
Expressing geometric properties with equations	Conditional Probability
Geometric measurement and dimension	

Assessments: Students will complete both formative and summative assessments throughout the year. These may include quizzes, homework assignments, writing reflections, or other means of measuring progress.

Content:

Basic geometry	Circles	Pythagorean Theorem
Definitions	Spatial geometry	Special right triangles
Logic and proof	Area, surface area, and	Right triangle
Congruence and	Volume	Trigonometry
Similarity	Coordinate geometry	Sequences and Series
Parallel, perpendicular	Locus	Geometric Probability
Polygons	Geometric construction	

Instructional Strategies: A variety of strategies will be used, including (but not limited to) group work, individual work, teacher-led activities, and problem-based activities.

Core Materials/Resources

1. **Textbook-** *Geometry: Common Core*. Charles, Hall, Kennedy, Bass, Johnson, Murphy, Wiggins.
2. **Pencils and erasers** – All of your math work should be done in pencil.
3. **Loose-leaf paper** (or notebook with easy rip paper)
 - ◆ Taking notes will be necessary throughout the course, so make sure that you always have clean paper.
 - ◆ A binder (maybe even with dividers!) will help to organize handouts, worksheets, and other materials.
 - ◆ A two pocket folder is strongly encouraged.
4. **Calculator** – **TI 83+ or TI 84 graphing calculator is HIGHLY recommended**, although a scientific calculator will work for most of the content in the course. Please do not purchase a different model unless you consult with me first – if you already have a different calculator, let me know.
5. **Internet access outside of school**
6. **Compass (any drawing compass will do)**
7. **Planner** - Only **YOUR intact** planner (with cover and ALL pages) will be accepted for use as a pass.

Academic/Behavioral Expectations:

- * If you miss class for any reason, you will be expected to get the notes and the assignment for those days. Please see another student to get a copy of any notes. All HW assignments are posted to the website and the expectation is that those are looked up and completed. If you have questions either see me, another teacher, or email me. If you miss a test or quiz, you will be expected to make it up the next day you have an available time. If you are gone for multiple days, see me to schedule a make-up timeline.
- * If you start to fall behind in this class, the secret is to get help IMMEDIATELY. The longer you wait, the worse things become. You can get help from me before, after school (after football season), and 5th period D study. There will also be a math teacher available for additional help every period of the day in C241. See me for a pass to go there. You can also learn a lot by working with your fellow classmates. Working together is strongly encouraged.
- * General Rules:
 - * Attendance is very important. I will be following the school attendance plan for excused, unexcused, and tardies.
 - * Cheating will not be tolerated! If you are found to be cheating on any work for the class, consequences may include earning a zero, contacting your parents and Assistant Principal or earning an F for the course.
 - * No food or beverages other than water in a clear container will be allowed in this classroom.
 - * I will follow the conduct policies outlined in your student planner. This includes responsible use of electronic devices. Should a problem arise, I may contact your parents and/or pursue assistance from the office. I expect you to behave as the mature, responsible, respectful students. Should a problem arise with behavior, attendance, or academics, I may contact your parents and/or pursue assistance from the office.

Grading Plan:

1. **Tests:** Tests will always be announced in advanced.
2. **Quizzes:** Quizzes will *usually* be announced.
3. **Homework Learning Checks (HLC)** – Random problems will be selected from recent homework assignments to be completed and graded for accuracy without notes. All work must be shown.
4. **Algebra Reviews:** Algebra will be used frequently throughout this course. Reviews will be given to reinforce your algebra skills. These will be collected and graded.
5. **Warm Ups** – You will have warm-up problems to complete most days. These will be collected occasionally. These will be included in HLC grades and/or quizzes.
6. **Other assignments or projects** – Other assignments or projects will be assigned throughout the year. Information will be given at the time the assignment is made.
7. **Late Work:** Assignments can be turned in up to two days late for half credit. An assignment is considered late if it is not turned in at the time I collect it—this means that even if you turn it in during the same class period, it will only receive partial credit.
8. **Extra Credit** - I may make small amounts of extra credit available at various times during the year. Extra credit will not be available during the last week of each semester. When extra credit is assigned a due date, none will be accepted late.
9. **Semester Exam (approximately 10% of your final grade)** – Your semester exam will be given one of the last two days of the semester.
10. **Grading Scale:** The DCSD grading scale will be followed as listed in your student planner
11. **A test retake policy will be discussed at a later date and will be test specific.**

A 93 to 100

B+ 87 to 89

C+ 77 to 79

D+ 67 to 69

A- 90 to 92

B 83 to 86

C 73 to 76

D 63 to 66

B- 80 to 82

C- 70 to 72

D- 60 to 62

F 0 to 59

Communication: PowerSchool will be updated frequently, so you can keep track of your grade. If you have any questions now or in the future, feel free to contact me at aroos@dbqschools.org