Mathematics: Geometry Common Syllabus

ESSENTIAL CONTENT & SKILLS (From Common Core Standards):

1. Make sense of problems and persevere in solving them.

2. Reason abstractly and quantitatively.

3. Construct viable arguments and critique the reasoning of others.

4. Model with mathematics.

5. Use appropriate tools strategically.

6. Attend to precision.

7. Look for and make use of structure.

8. Look for and express regularity in repeated reasoning.

In Geometry, these practice standards will be emphasized through:

1. Using basic language, tools of geometry, plane geometry and coordinate geometry

2. Using logical reasoning and proof

3. Using angle relationships

4. Using polygons

5. Using congruent and similar triangles

6. Exploring geometric concepts with constructions using traditional tools and technology

7. Using right triangle trigonometry

8. Using transformational geometry

9. Using circle properties

10. Using 3-Dimensional figures

**Grading Scale:**

Weighted

-Graded Assignments = 10 %

-Quizzes = 30%

-Unit Assessments = 60%

**Extra Credit Policy:** Extra Credit will be available throughout the semester for no more than 5% of the overall grade.

**Graded Assignments:**

Assignments can be collected and graded on completion, accuracy, or given a homework quiz at the teacher’s discretion

**Late Work Policy:** No late work will be accepted.

**Reassessment Policy:** Students will be able to re-take one test a quarter per teacher’s retake procedures.

**Testing Aids:** No Unit Assessment Aids (index cards, formula sheet, or notes) will be allowed, any specific formulas that

 will be needed will be provided in the test.

**Absent Day of the Test or Quiz:** If you are absent on the day of a test or quiz, you must take it the day you return.

**GRADING:**

* A = 90 – 100
* B+ = 87 – 89
* B = 80 – 86
* C+ = 77 – 79
* C = 70 – 76
* D+ = 67 - 69
* D = 63 – 66
* D- = 60-62
* F = below 60

**Semester Grades:** Quarter 1=40% Quarter 2= 40% Exam= 20%

\*If a student earns two out of the three components to their semester grades, the student will earn credit in the class.

**Academic Integrity Policy – See the DHS Student Handbook.**

**Order of topics**

1. Introduction to Geometry (Prerequisites/Basic Constructions/Transformations) 7. Right Triangles

2. Angle Relationships & Parallel and Perpendicular Lines 8. Trigonometry with vectors

3. Polygons 9. Circles

4. Triangles 10. Area

5. Congruent Triangles 11. Surface Area and Volume

6. Similarity