

NC Math 3 Course Overview F – Reasoning with Geometry

February 27 – March 21, 2019

This section of Math 3 will cover the following standards...

NC.M3.G-CO.10 Verify experimentally properties of the centers of triangles (centroid, incenter, and circumcenter).

NC.M3.G-CO.11 Prove theorems about parallelograms.

- Opposite sides of a parallelogram are congruent.
- Opposite angles of a parallelogram are congruent.
- Diagonals of a parallelogram bisect each other.
- If the diagonals of a parallelogram are congruent, then the parallelogram is a rectangle.

NC.M3.G-CO.14 Apply properties, definitions, and theorems of two-dimensional figures to prove geometric theorems and solve problems.

NC.M3.G-C.2 Understand and apply theorems about circles.

- Understand and apply theorems about relationships with angles and circle, including central, inscribed, and circumscribed angles.
- Understand and apply theorems about relationships with line segments and circles including radii, diameter, secants, tangents, and chords.

NC.M3.G-C.5 Using similarity, demonstrate that the length of an arc, s , for the given central angle is proportional to the radius, r , of the circle. Define radian measure of the central angle as the ratio of length of the arc to the radius of the circle, s/r . Find the arc lengths and areas of sectors of circles.

NC.M3.G-MG.1 Apply geometric concepts in modeling situations

- Use geometric and algebraic concepts to solve problems in modeling situations.
- Use geometric shapes, their measures, and their properties to model real-life objects.
- Use geometric formulas and algebraic functions to model relationships.
- Apply concepts of density based on area and volume.
- Apply geometric concepts to solve design and optimization problems.

Tentative Date for Test F: Thursday, March 21, 2019

Date	I can...	A#	Assignment	Follow-Up?
2/26/19				
2/27/19				
2/28/19				
3/1/19				

Date	I can...	A#	Assignment	Follow-Up?
3/04/19				
3/05/19				
3/06/19				
3/07/19				
3/08/19				
3/11/19				
3/12/19				
3/13/19				
3/14/19				
3/15/19				
3/18/19				
3/19/19				
3/20/19				