NC Math 3		
Changed [*] or Added	Removed Concepts/Skills from Course	Additional Concepts for
Concepts/Skills	Standards	Implementation Year
 Rewrite exponential expressions (NC.M3.A-SSE.3c, from Math II) Extend the concept of a function to include angle measures (NC.M3.F-IF.1, new) Use sine to represent periodic phenomena (NC.M3.F-TF.5, formally sine, cosine and tangent) Properties of the centers of triangles (NC.M3.G-CO.10, new) Use volume to solve problems (NC.M3.G-GMD.3, from Math I) Cross-sections of three dimensional objects (NC.M3.G-GMD.4, from Math II) Modeling with Geometry (NC.M3.G-MG.1, from Math II) 	 Vinit analysis, scale, level of accuracy (N-Q.1, 2, and 3 - Incorporated into the Standards for Mathematical Practice) Geometric Definitions (G.CO.1 - Incorporated into the associated standards) Geometric Constructions (G.CO.12, G.C.3 - Incorporated into Instructional Documents) Rational and irrational numbers (to NC Math 2, NC.M2.N-RN.3) Defining a complex number (to NC Math 2, NC.M2.N-RN.3) Defining a complex numbers (to NC Math 2, NC.M2.N-RN.1) Operations with complex numbers (N-CN.2 to a fourth level math) Completing the square (to NC Math 2, NC.M2.A-SE.3, NC.M2.A-REI.4a, NC.M2.A-REI.4b, and NC.M2.F-IF.8a) Derive the formula for the sum of a finite geometric series (A-SE.4 to a fourth level math) Solving for a variable in formulas (Fully in NC Math 1, NC.M1.A-CED.4) Understanding the relationship between the graph of an equation and the solutions (Fully in NC Math 1, NC.M1.A-REI.10) Write arithmetic and geometric sequences recursively and with an explicit formula (to NC Math 2, NC.M2.G-CO.9) Prove theorems about lines and angles (to NC Math 2, NC.M2.G-CO.10) Similarity through transformations (to NC Math 2, NC.M2.G-SRT.2, NC.M2.G-SRT.3, NC.M2.G-SRT.4, and NC.M2.G-SRT.5) Derive the equation of a parabola (G-GPE.2 to a fourth level math) Find the point on segment partitions with a given ratio (G-GPE.4 to a fourth level math) Find the point on segment partitions with a given ratio (G-GPE.6 to a fourth level math) Find the point on segment partitions with a given ratio (G-GPE.6 to a fourth level math) Find the point on segment partitions with a given ratio (G-GPE.6 to a fourth level math) Find the point on segment partitions with a given ratio (S-DL 4 to a fourth level math) Find the point on segment partitions with a given ratio (S-MD.6 to a fourth level math) Fair decisions (S-MD.7 to a fourth lev	 Implementation Year For the implementation year: Rational and irrational numbers (to NC Math 2, NC.M2.N-RN.3) Defining a complex number (to NC Math 2, NC.M2.N-CN.1) Completing the square (to NC Math 2, NC.M2.A- SSE.3, NC.M2.A-REI.4a, NC.M2.A-REI.4b, and NC.M2.F-IF.8a) Prove theorems about lines and angles (to NC Math 2, NC.M2.G- CO.9) Prove theorems about triangles (Fully in NC Math 2, NC.M2.G-CO.10) Similarity through transformations (to NC Math 2, NC.M2.G- SRT.2, NC.M2.G-SRT.3, NC.M2.G-SRT.4, and NC.M2.G-SRT.4, and NC.M2.G-SRT.5)