



2003 Standard Course of Study for Geometry and Algebra II

North Carolina Assessment Specifications Summary

North Carolina's NC Final Exams for Geometry and Algebra II

Purpose of the Assessments

Measures of Student Learning: North Carolina's NC Final Exams for Geometry and Algebra II will measure students' academic progress in the 2003 *Standard Course of Study (SCS)*. The NC Final Exams for Geometry and Algebra will focus on the 2003 *SCS* as shown in Tables 1 and 2.

NC Final Exam scores (along with any other relevant end-of-course or end-of-grade assessment scores) will be used in the Educational Value Added Assessment System (EVAAS) to produce student growth measures to satisfy Standards 6 and 8 of the North Carolina Educator Evaluation System.

NC Final Exams were developed to replace locally developed assessments, providing teachers and principals with a common measure for all students state-wide during a given testing window. NC Final Exam scores will be worth a minimum of 20% of the student's final grade.

NC Final Exams will NOT be used for school and district accountability under the READY Accountability Model or for Federal reporting purposes.

For more information on the North Carolina Educator Evaluation System go to <http://www.ncpublicschools.org/effectiveness-model/>.

Curriculum Cycle

2011–2012: Item development for the NC Final Exams in Geometry and Algebra II.

2012–2013: Operational administration of NC Final Exams in Geometry and Algebra II.

Standards

The 2003 *Standard Course of Study for Geometry and Algebra II* are posted at: http://math.ncwiseowl.org/UserFiles/Servers/Server_4507209/File/SCS%202003/HS2003.pdf

Prioritization of Standards

The North Carolina Department of Public Instruction (NCDPI) invited teachers to collaborate and develop recommendations for a prioritization of the standards indicating the relative importance of each standard, the anticipated instructional time, and the appropriateness of the standard for multiple-choice (MC) formats. Subsequently, curriculum and test development staff from the NCDPI met to review the results from the teacher panels and to develop weight distributions across the domains for each grade level.

Tables 1 and 2 describe the percentage of score points that will appear on the NC Final Exams forms in Geometry and Algebra II.

Table 1. Test Specification Weights for the NC Final Exams in Geometry

2003 Standard Course of Study	Multiple Choice
<i>Number and Operations</i> 1.01,1.02, 1.03	22-31%
<i>Geometry and Measurement</i> 2.01, 2.02, 2.03, 2.04	57-63%
<i>Data Analysis and Probability</i> 3. 01	11- 13%
Total percent of score points	100%

Table 2. Test Specification Weights for the NC Final Exams in Algebra II

2003 Standard Course of Study	Multiple Choice
<i>Number and Operations</i> 1.01 – 1.05	15-20%
<i>Algebra</i> 2.01,2.04,2.05, 2.06, 2.07, 2.09 2.02, 2.03, 2.08, 2.10	48-53% 28-34%
Total percent of score points	100%

Cognitive Rigor

The Algebra II and Geometry Multiple Choice (MC) items were aligned to the content standards using Marzano’s *Thinking Skill Levels*. To read more about North Carolina’s *Thinking Skill Levels* and how they were used to align MC items to the 2003 SCS read http://www.ncpublicschools.org/docs/accountability/testing/eog/asb_thkskl.pdf

Types of Items

- The NC Final Exams for Geometry and Algebra II will consist of four-response-option MC items. Constructed response items were removed from the Geometry and Algebra II exams for the 2013-14 school year.
- The MC items are aligned to the 2003 SCS content as shown in Tables 1 and 2.
- Students will be allowed to use calculators for all items.

Testing Structure and Time

- The NC Final Exams in Mathematics consists of 30 to 36 items.
- The total time allocated to the exam is 120 minutes unless students have documented accommodations (i.e., Multiple Testing Sessions, Extended Time). Students should monitor the clock to ensure they allow themselves adequate time to respond to all items.

Delivery Mode

- The NC Final Exams are designed for paper/pencil mode only.