



Public Schools of North Carolina

State Content Standards Revision: 4th Level Mathematics

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August 2019

Purpose

- Approve the 4th Level Mathematics Standards Revisions
 - Exploration (Anticipated approval August 2019)
 - Installation 2019-20
 - Implementation with aligned assessments 2020-21



Focus Areas for Efficient, Effective, Sustainable Implementation

**Communication
and Visibility**

**Professional
Development**

**Coaching and
Technical
Assistance**

**Research and
Evaluation**



Research and Evaluation



Research and Evaluation

Recommendations Approved by the SBE February 2019

- *Modify* the current **Precalculus Course**
- *Modify* **Discrete Mathematics**
 - to connect to computer programming/coding standards (Discrete Mathematics for Computer Science)
- *Create* an **NC Math 4** course
 - include extended content in Algebra & Functions, Statistics & Probability, and other topics that extend from NC Math 1-3



Major Activities (SCOS-012)

Date	Mathematics Surveys and Focus Groups Continuous evaluation and study of standards
Feb	<ul style="list-style-type: none">• SBE Approval to proceed with Standards Revision
Feb	<ul style="list-style-type: none">• LEA Standards Review Teams<ul style="list-style-type: none">• 124 Teams (LEAs and Charters)• All 8 SBE Districts• Writing and Data Review Teams<ul style="list-style-type: none">• Selection via application and finalization of
Ongoing	Stakeholder Feedback and Focus Groups



Major Activities (SCOS-012)

Date	Mathematics Surveys and Focus Groups Continuous evaluation and study of standards
Mar	<ul style="list-style-type: none">• (March 1-18) Writing team worked on draft 1 based on review phase data• (March 18-25) Writing team submitted 1st draft to LEA Math Standards Liaisons for review and feedback• (March 26-29) Data Review Team analyzed LEA feedback for the Writing Team for April 3 meeting



Major Activities (SCOS-012)

Date	Mathematics Surveys and Focus Groups Continuous evaluation and study of standards
Apr	<ul style="list-style-type: none">• (April 4 – May 4) Draft 1 Public Review – parents, educators, and all other community members invited to provide feedback to proposed revisions• Data Review Team and NCDPI reviewed and analyzed public feedback. Writing Team responded to feedback to produce Draft 2• (April 29 - May 17) Draft 2 for review by LEA Math Standards Liaisons



Major Activities (SCOS-012)

Date	Mathematics Surveys and Focus Groups Continuous evaluation and study of standards
May	<ul style="list-style-type: none">• Virtual Meeting with writing team (5/21)• (May 24 – June 24) Draft 2 posted for Public Review and External Review<ul style="list-style-type: none">• (UNC System CAOs & Community College; and National reviewers, such as SCASS State Members & Business leaders)



Major Activities (SCOS-012)

Date	Mathematics Surveys and Focus Groups Continuous evaluation and study of standards
Jun	<ul style="list-style-type: none">• Continued public review• Collaborate with Accountability on item development based on draft 2 feedback• (June 21 – 27) Writing team consults with review team to reconcile feedback & produce Draft 3• (June 28) <u>Draft 3 complete</u>



Professional Development



Professional Development

4th Level Mathematics: State Implementation Plan

Professional Development and Resources

- **Professional Development Plan** - Face to Face, Virtual, Blended
 - RBT Training
 - Understanding the Standards
- **Resources**
 - Parent Guides
 - Unpacking
 - Glossary
 - Crosswalks
 - Indicators
- **Collaboration** - District and Regional Support and Charters
 - Communication
 - Delivery



Closing

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