

Bedford Central School District

# Elementary Math Curriculum Update

CIA Subcommittee Meeting  
February 7, 2022

Math  
Committee  
Leaders

Assistant Supt. for C & I:

Amy Fishkin

Math Coordinator, 6-12

Sarah Bazzano

K-5 Coordinators:

Jackie Salcito, BHES


Christina Valentine, BVES

Chris Goodrow, MKES

Erika Volpe, PRES

Margaret Rose Goodman, WPES





K-5 Math  
Committee  
Members (20)

- 
- ✓ K-5 General Education Teachers
  - ✓ K-5 Special Education Teachers
  - ✓ K-5 Tiered Support Teachers
  - ✓ Bilingual and DLBE Teachers
  - ✓ Elementary Coordinators
  - ✓ Elementary Principals
  - ✓ FLMS 6th Grade Teacher
  - ✓ 6-12 Math Coordinator
  - ✓ Curriculum Consultant



1. Why Math now?

# Shift to NYS Next Generation Standards

Instruction aligned to NYS Next Generation Mathematics Learning Standards begins...

...September 2019  
for grades PK-2

...September 2022  
for Grades 3-8

...September 2023  
for Algebra I

...September 2024  
for Geometry

...September 2025  
for Algebra II

2019-2022

2022-2023

2023-2024

2024-2025

2025-2026

**Spring 2022**  
Last administration  
of NYS Grades 3-8  
state assessments  
aligned to the NYS  
CCLS for  
Mathematics (2011)

**Spring 2023**  
First administration of  
NYS Grades 3-8 state  
assessments aligned to  
the NYS Next Generation  
Mathematics Learning  
Standards

**June 2024**  
First administration of  
Algebra I Regents  
Exam, aligned to the  
NYS Next Generation  
Mathematics Learning  
Standards

**June 2025**  
First administration of  
Geometry Regents  
Exam, aligned to the  
NYS Next Generation  
Mathematics Learning  
Standards.  
\* Last administration of  
Algebra I CC (2011)  
Regents Exam.

**June 2026**  
First administration of  
Algebra II Regents  
Exam, aligned to the  
NYS Next Generation  
Mathematics Learning  
Standards.  
\*\* Last administration  
of Geometry CC (2011)  
Regents Exam.

Build Capacity 2019 - 2022

BCSD Math Curriculum Review 2019 - 2020

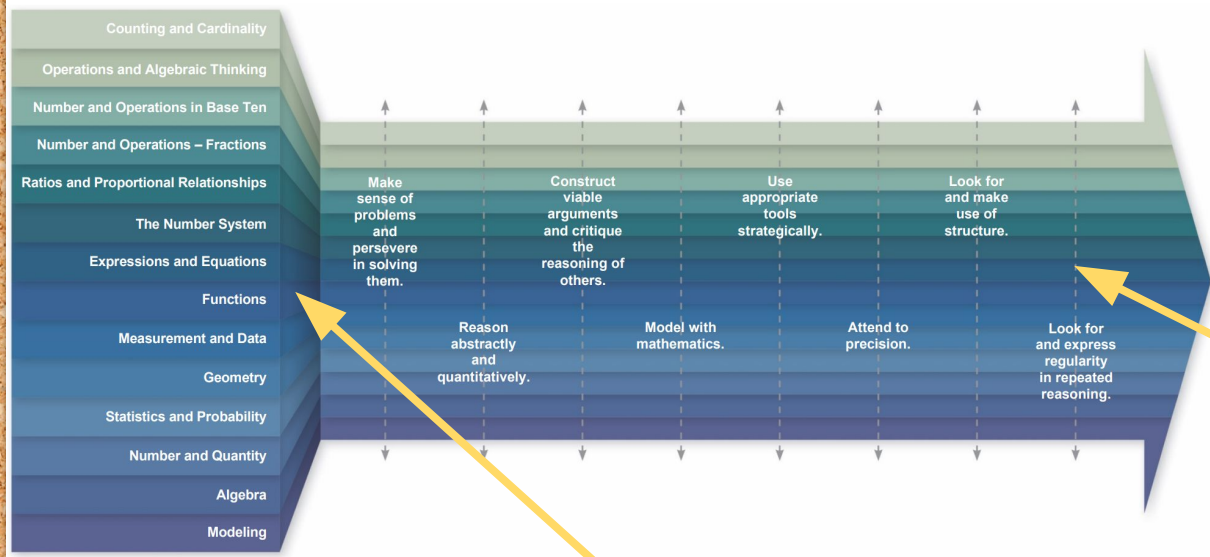
Math Committee reformed in Fall 2021

NYS Next Gen Standards Learning Standards  
full Implementation & assessment 2022-2023

# New York State Next Generation Mathematics Learning Standards

Updated June 2019

2017



## Standards for Mathematical Practices:

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated reasoning.

## Content Standards

K-5: Provide a foundation in whole numbers, place value, addition, subtraction, multiplication, division, fractions and decimals.

## BCSD Curriculum Review Cycle 2021-2026

	Phase 1 Study & Plan	Phase 2 Develop	Phase 3 Implement			Phase 4 Evaluate
Description	Review achievement data, current curriculum materials, and appropriate standards. Research best practices. Study available curriculum materials. Select new materials, if appropriate. Plan <b>Phase 1</b> and implementation.	Provide training and PD as needed. Begin implementation process of any new instructional materials. Collect evidence of student learning and impact of curriculum. Revise and refine in "real time."	Provide ongoing support for implementation. Collect evidence of student learning. Revise scope & sequence. Assist with ongoing PD.	Provide ongoing support for implementation. Collect evidence of student learning. Revise scope & sequence. Assist with ongoing PD.	Provide ongoing support for implementation. Collect evidence of student learning. Revise scope & sequence. Assist with ongoing PD.	Monitor overall implementation. Evaluate and reflect upon success of student learning. Continue revisions to curriculum scope & sequence. Prepare for Phase 1.
<b>2021-2022</b> <small>Tri-States Leadership Structures (NEW Consultancy) Student Membership &amp; Voice (Follow-up)</small>	K-12 Mathematics	K-12 SEL K-12 S	K-12 VPA	K-12 ELA/Reading	K-12 ESOL	K-12 ELA/Writing
<b>2022-2023</b> <b>3-8 ELA/Math Next Gen Standards Assessed</b>	K-12 Info. Literacy & Digital Fluency	K-12 MA K-5 Enr K-12 Info. Literacy & Digital Fluency	K-12 Science	K-12 PE/Health	K-12 SS/Business	World Languages
<b>2023-2024</b> <b>Grade 5 &amp; 8 Next Gen Science Assessed</b>	K-12 ELA/Writing K-12 STEAM	K-12 ELA/Writing K-12 STEAM	K-12 Mathematics K-5 Enrichment K-12 Info. Literacy & Digital Fluency	K-12 SEL K-12 Science	K-12 VPA K-12 PE/Health	K-12 ELA/Reading K-12 SS/Business
<b>2024-2025</b> <b>Next Gen Geometry, Biology, Earth &amp; Space Regents</b>	K-12 ELA/Reading K-12 SS/Business	K-12 ESOL World Languages	K-12 ELA/Writing K-12 STEAM	K-12 Mathematics K-5 Enrichment K-12 Info. Literacy & Digital Fluency	K-12 SEL K-12 Science	K-12 VPA K-12 PE/Health
<b>2025-2026</b> <b>Next Gen Chemistry &amp; Physics Regents</b>	K-12 VPA K-12 PE/Health	K-12 ELA/Reading K-12 SS/Business	K-12 ESOL World Languages	K-12 ELA/Writing K-12 STEAM	K-12 Mathematics K-5 Enrichment K-12 Info. Literacy & Digital Fluency	K-12 SEL K-12 Science

K-12 Mathematics

Phase 1:  
Study & Plan  
Mathematics



# Math Committee Goals & Process



# Goals of Math Committee

- Examine results of the district K-12 mathematics curriculum review (completed in April 2020)
- Unpack New York State Next Generation Learning Standards in Mathematics
- Examine classroom practices to ensure strong alignment to standards and values
- Articulate core criteria to guide the examination and selection of mathematics resources

GOALS



# MATH COMMITTEE PROCESS (2021 - 2022)

## October

Review BCSD  
Curriculum  
Report

Examined the  
NYS Next Gen  
Learning  
Standards

## November

Examined own  
student work  
and teaching  
practices

Set criteria for  
evaluating math  
resources

## December

Refined criteria  
for examining  
math resources

Researched new  
math resources

Sent survey to  
BCSD teachers

## January

Analyzed  
feedback from  
teacher survey  
and neighboring  
districts

Analyzed 7 math  
resources based  
on criteria

## February

Vendor visits  
from 2  
potential  
resources

## Guiding Criteria:

- align to Next Generation Mathematics Learning Standards
- engage students in **critical thinking, problem solving** and promote **creativity** and **curiosity**
- promote **growth mindset** and develop students as self-regulated learners
- **engage** students in learning by including opportunities for collaboration and discussion
- **accessible to all students** through multiple representations and solutions and opportunities



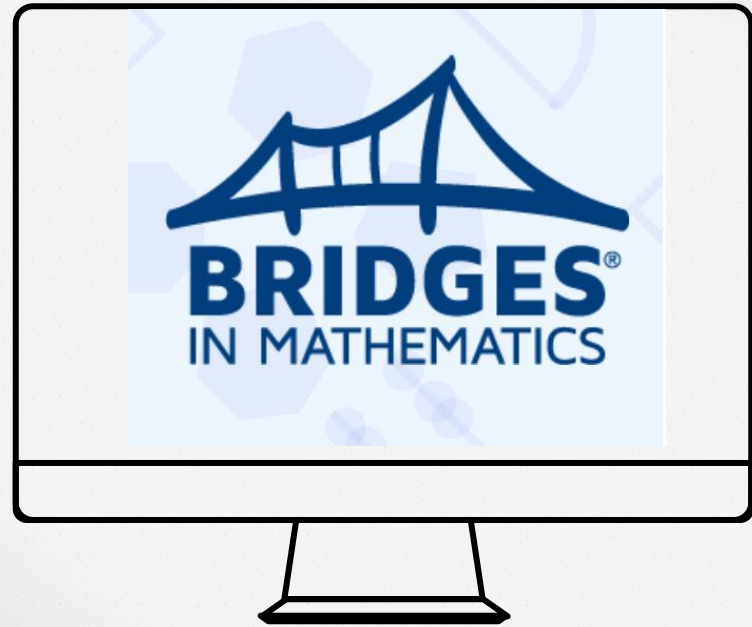
## Additional Key Factors:

- Available in both English and Spanish (DLBE)
- Based in latest research in mathematics instruction
- Strong home component for parent-school partnership
- Strong technology component with online resources for both home and school
- Ease of use (both student and teacher)
- Clear scope & sequence, coherence, and vertical alignment of mathematical concepts
- Professional Development & support with onboarding process



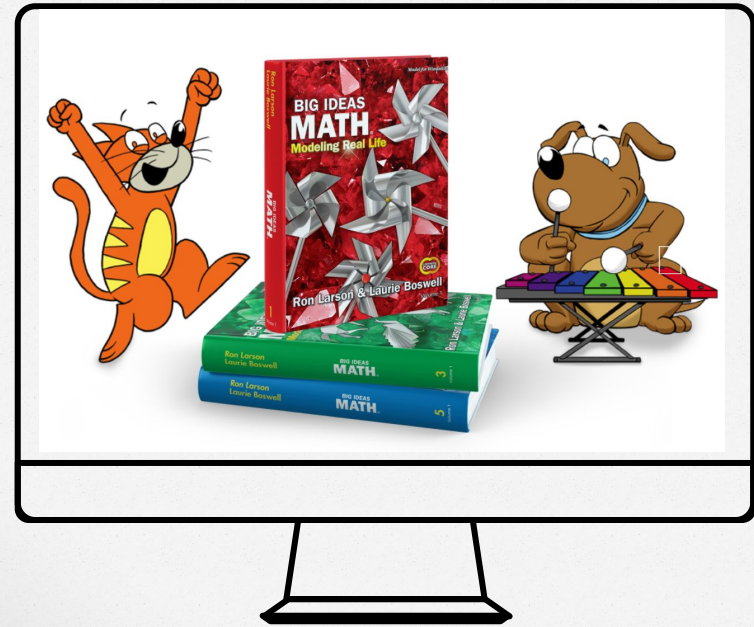
# Bridges in Mathematics

A comprehensive PreK-5 mathematics curriculum that provides a unique blend of direct instruction, structured investigation and open exploration.



# Big Ideas

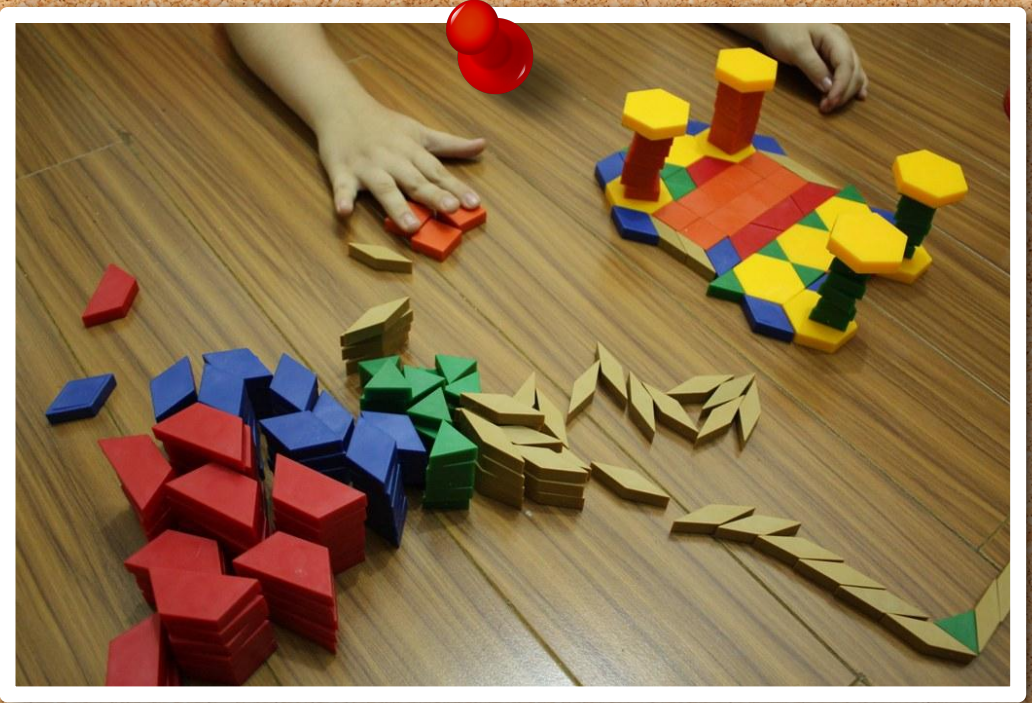
Big Ideas Math: Modeling Real Life is an elementary math curriculum that empowers teachers and promotes student ownership so all learners can succeed in math



# Next Steps

Connect with school districts where the 2 final resources are being utilized

Math committee members trial 2 final resources in classrooms with students



# Math Committee Spring 2022 TIMELINE

## February

Share update  
with CIA

Trial materials  
in classrooms

Visit school  
districts using  
resources

## March

Continue trial  
materials in  
classrooms

Reconvene math  
committee

## April

Determine final  
math material  
selection

Plan for  
budgetary  
implications

## May-June

Plan onboarding  
& PD process  
for teachers

Communicate  
with elementary  
families

## July-August

Purchase  
materials

Onboarding and  
professional  
development

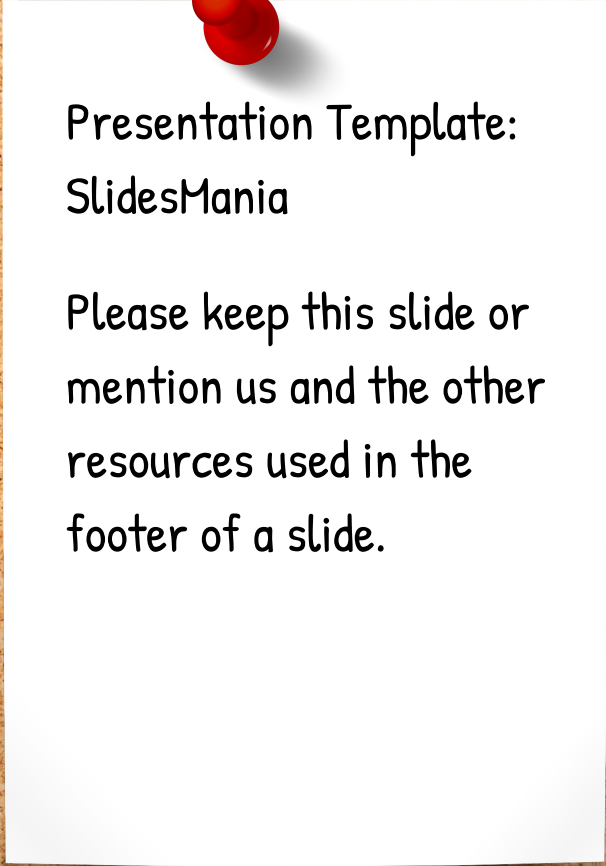


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**Thank you!**



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