



Curriculum Review

MATHEMATICS VISION PROJECT

Dr. Edward McFarland, Chief Academic Advancement Officer
June 18, 2019



BY 2020, WCPSS WILL ANNUALLY GRADUATE
AT LEAST 95% OF ITS STUDENTS READY FOR
PRODUCTIVE CITIZENSHIP AS WELL AS
HIGHER EDUCATION OR A CAREER.



WAKE COUNTY
PUBLIC SCHOOL SYSTEM



NC State Standards

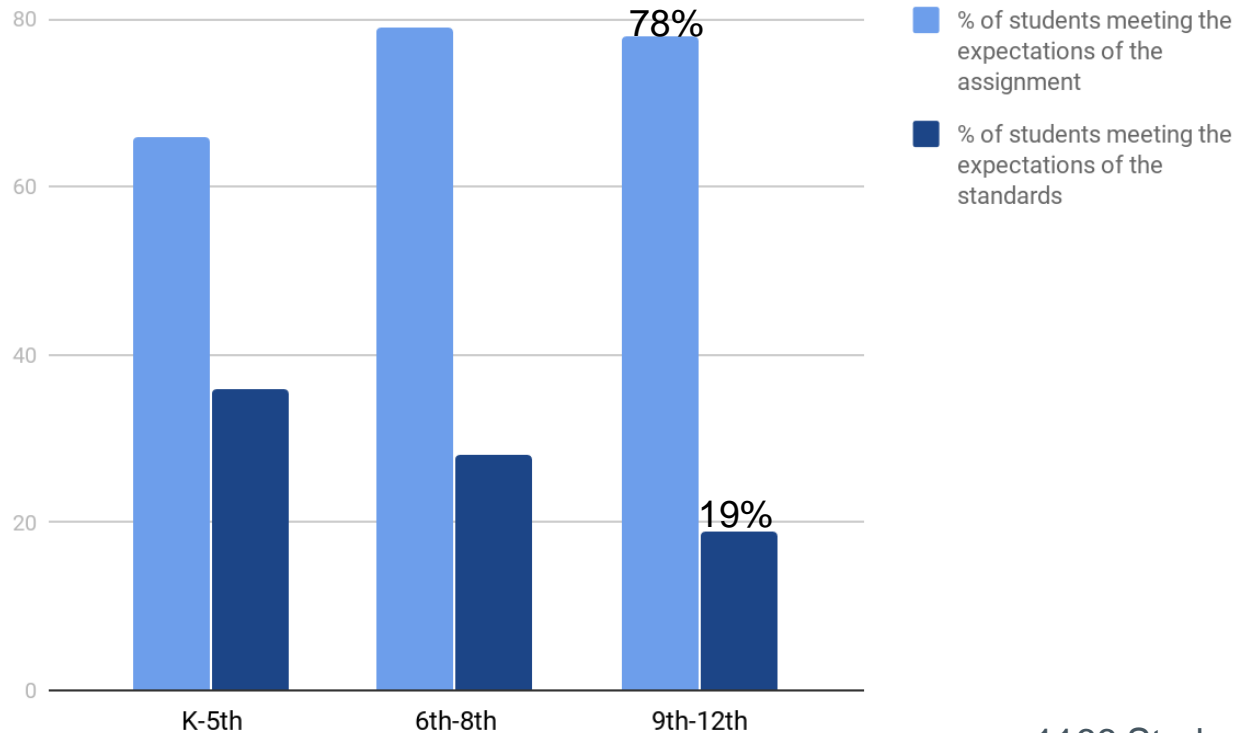
2016-2017

- NC moved away from the Common Core State Standards
- Adopted and implemented new High School Math Standards
- Integrated math classes remained (Math 1, 2, 3)
- Standards for Mathematical Practice remained
- Teachers did not have curriculum resources that aligned to the Standards.

STANDARDS FOR MATHEMATICAL PRACTICE

- 1 Make sense of problems and persevere in solving them.
- 2 Reason abstractly and quantitatively.
- 3 Construct viable arguments and critique the reasoning of others.
- 4 Model with mathematics.
- 5 Use appropriate tools strategically.
- 6 Attend to precision.
- 7 Look for and make use of structure.
- 8 Look for and express regularity in repeated reasoning.

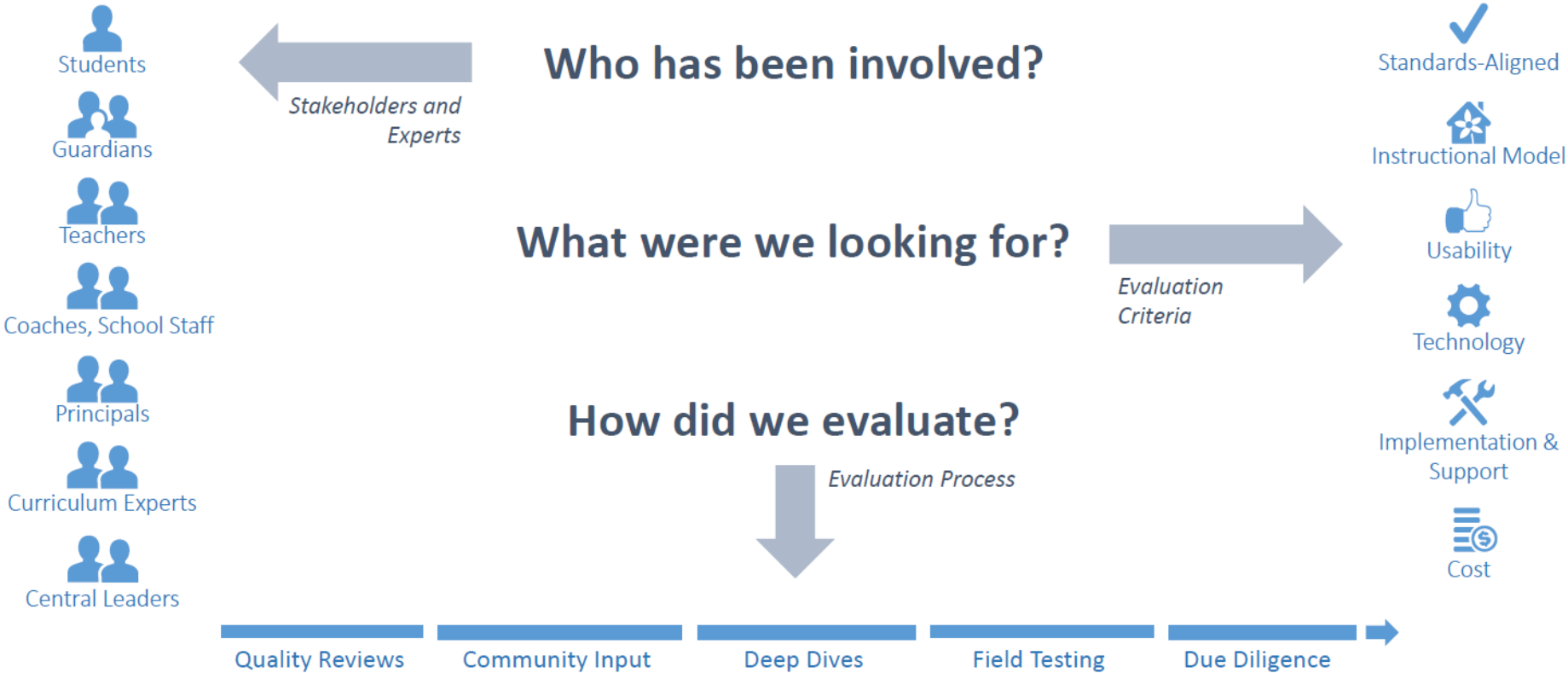
Curriculum Audit



n=1166 Student Work Samples

WCPSS Core Curriculum Adoption 2017

Analysis and Input to Inform Evaluation and Selection



Curriculum Implementation

Teacher
Directed

Student
Centered



**Effective
Math
Instruction**



High School Math 1 Data

The NC Department of Public Instruction reports two levels of math proficiency. Grade Level Proficiency measures the percent of students who scored at a level 3, 4 or 5 on the statewide exam. College and Career Ready measures the percentage of students who score at level 4 and 5 only.

	2015-2016	2016-2017	2017-2018 (MVP Implementation)	Difference
Grade Level Proficiency	35.9	40.5	42.0	1.5
College and Career Ready	23.2	26.4	28.3	1.9

Additional years of data will be needed to confirm any sort of trend.

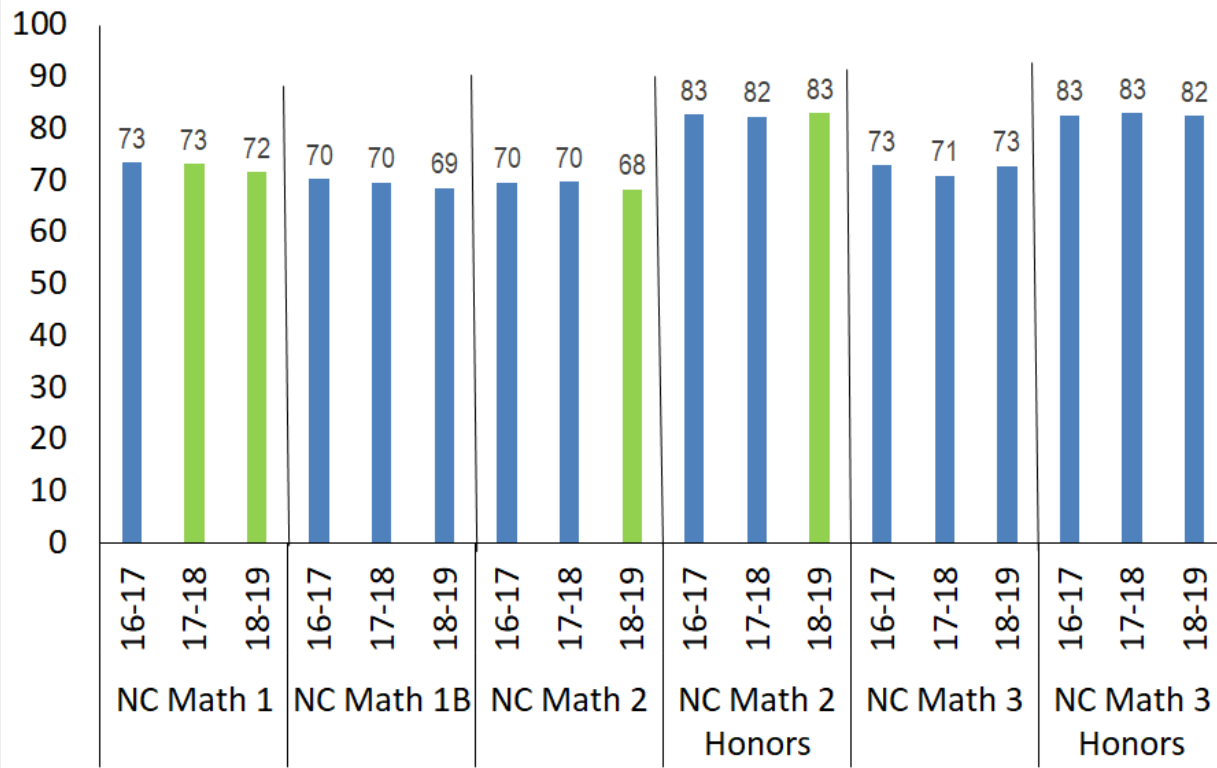
Math 2 NC Final Exam Results for WCPSS Students

	A	B	C	D	F	# of students
17-18	38%	23%	15%	17%	7%	12,897
18-19	35%	26%	15%	18%	7%	12, 659

Source: WCPSS Internal Data

Note: Includes middle and high school students; 18-19 data does not include middle school students on Tracks 2, 3, and 4. Percentages may not total 100 due to rounding.

Average HS Mathematics Grades for WCPSS Students (Quarter 3)



**Green bars = MVP
Math Curriculum
Used**

*Note: MVP
implementation was
optional for Math 3
and Math 3 Honors in
18-19.*

Data as of 6/18/19.



Curriculum Review Committee Recommendations

1. Ongoing professional learning
2. Improved communication with all stakeholders
3. Development of curriculum resources
4. Option to delay implementation in MVP Math 3 for schools that have not already implemented
5. Engage an outside third-party vendor to audit the curriculum implementation and instructional practices



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