2019 Math Course of Study

TIMELINE

- 2019-2020 - Current year (2016 standards)
- 2020-2021 - Transitional year (MS 2019 standards, HS 2016 standards)
- 2020-2021 - Adopt new math textbooks
- 2021-2022 - Full implementation year (2019 standards)

MIDDLE SCHOOL

- Courses
  - Grade 7 Math - extremely similar to current standards
  - Grade 7 Accelerated Math - Grade 7, Grade 8, Algebra I with Probability
  - Grade 8 Math - extremely similar to current standards
  - Grade 8 Accelerated Math - Grade 8 and Algebra I with Probability
- Accelerated Courses
  - Grade 7 Accelerated Math is a state required prerequisite for Grade 8 Accelerated Math
  - Students can skip Algebra I at the high school if they successfully complete Grade 7 Accelerated Math and Grade 8 Accelerated Math. Students determine to skip or take Algebra I.
  - Students do not earn a high school credit for completing Grade 7 Accelerated Math and Grade 8 Accelerated Math. If a student skips Algebra I at the high school, he/she is still required to complete four math credits.
- Implementation
  - New standards for MS begin in 2020-2021
  - Continue offering 8th Grade Algebra I in 2020-2021
  - Offer Grade 8 Accelerated Math in 2021-2020

Grade	2019-2020 (current standards)	2020-2021 (mostly new standards)	2021-2022 (new standards)
7th Grade	Grade 7 Math	Grade 7 Math (2019)	Grade 7 Math (2019)
	Grade 7 Advanced Math	Grade 7 Accelerated Math (2019)	Grade 7 Accelerated Math (2019)
8th Grade	Grade 8 Math	Grade 8 Math (2019)	Grade 8 Math (2019)
	8th Grade Algebra 1	8th Grade Algebra 1 (2016)	Grade 8 Accelerated Math (2019)

- Course Codes
  - Grade 7 Math: 210002
  - Grade 7 Accelerated Math: 210045
  - Grade 8 Math: 210003
  - 8th Grade Algebra 1: 210006aa
  - Grade 8 Accelerated Math: not currently available

HIGH SCHOOL

- . For the most part, high schools will continue as normal for 2020-2021. High schools will use the 2016 course of study courses in 2020-2021High schools <u>cannot</u> offer Algebra 1A or Geometry A in 2020-2021.

Courses: 2020-2021
- <u>Can offer</u>: Algebra 1, Algebra 1B, Geometry, Geometry B, Algebraic Connections, Algebra 2 with and without Trigonometry, Algebra with Finance, Discrete Mathematics, Analytical Math, Precalculus, AP/IB Math courses
- <u>Cannot offer</u>: Algebra 1A, Geometry A

Courses: 2021-2022
- <u>Must offer</u>: Geometry with Data Analysis (9th), Algebra I with Probability, Algebra II with Statistics, 4th math course
- <u>Fourth math options</u>: Mathematical Modeling, Applications of Finite Mathematics, Precalculus, AP/IB Math courses.
- <u>Cannot offer</u>: Algebra 1A/1B, Geometry A/B, Algebraic Connections, Algebra with Finance, Discrete Mathematics, Analytical Math

2019 Math Course of Study
- Simpler pathway: Geometry with Data Analysis (9th), Algebra I with Probability (10th), Algebra II with Statistics (11th), fourth math course
- Fourth math options: Mathematical Modeling, Applications of Finite Mathematics, Precalculus, AP/IB Math courses. Students can take the specialized math courses in any order expect students must complete Precalculus before taking AP Calculus and IB course sequences.
- Geometry with Data Analysis will be a 9th grade course beginning in 2021-2022.
- Students who successfully complete Grade 7 Accelerated and Grade 8 Accelerated can skip Algebra I with Probability. However, students will not receive a math credit for skipping Algebra I with Probability and are still required to earn at least four math credits.
- Honors Courses: Geometry with Data Analysis, Algebra I with Probability, Algebra II with Statistics
- Higher Level Math Courses:
  - Option 1: Take Geometry with Data Analysis and Algebra I with Probability concurrently.
    9th: Geometry/Algebra I, 10th: Algebra II, 11th: Precalculus, 12th: AP Calculus
  - Option 2: Complete Grade 7 and Grade 8 Accelerated Math and skip Algebra I with Probability.
    9th: Geometry, 10th: Algebra II, 11th: Precalculus, 12th: AP Calculus
- Math Lab
  - Taken concurrently with math courses to meet the needs of all students.
  - These lab courses might review prior knowledge needed for upcoming lessons, reinforce content from previous lessons, or preview upcoming content to ensure that students can fully participate in the required content classes.
  - Elective credit, not a mathematics credit.
- Cannot duplicate credit: The following courses from the 2019 COS cannot be taken for credit if a credit was earned for the corresponding course(s) from the 2016 COS:
  - Algebra 1 with Probability AND Algebra I
  - Geometry with Data Analysis AND Geometry
  - Algebra 2 with Statistics AND Algebra II or Algebra II with Trigonometry.