

Accelerated Pathways in Mathematics

North Country Road Middle School

The North Country Road Middle School has developed a program that includes multiple pathways to foster student achievement in Mathematics. The program is in reference to student readiness, and opportunities to accelerate if appropriate at another time during the middle school years. A student is not “behind” if they do not accelerate.

Possible Pathways in Math

- There will be many students that progress from Math 6 into Math 7, followed by Math 8 as per the New York State Mathematics curriculum.
- Some students will be selected for our Math 7 Honors class discussed further in this document. Student progress will be monitored throughout the year. Students that are successful in Math 7H will be placed in Algebra I in Grade eight. Struggling students will be given the opportunity to withdraw and move to Math 7 during quarter one.
- A student in Math 7 can be considered for Algebra based on their performance in Math 7 (95% average for the year / 90% on final exam), and additional material that they would need to become familiar with over the summer. Therefore, if you do not meet the criteria for Math 7H, there is still the possibility of challenging Algebra in grade 8.

Math 7 Honors

- Our current concept includes implementing an accelerated course in grade 7 that serves as a more appropriate bridge to Algebra I.
- The philosophy used in the design of this course would allow the Math 7H course to include grade 7 and grade 8 material, providing a more appropriate foundation before moving into Math that involves a Regents (Algebra I in grade 8).
- This course will “compact” the grades 7 and 8 Math curricula, which places demands on pace and rigor.
- This class will be “weighted” in comparison to other classes (1.05%)
 - A 90% = 94.5
 - A 80% = 84

Why Accelerate?

- The philosophy in reference to acceleration in Math is to provide opportunities in High School to challenge enrichment, which comes through rigorous Math courses. If students complete Algebra I, Geometry, and Algebra II by grade 10, they have two years to choose challenging Math courses (i.e. Pre Calculus, Calculus or AP Calculus, Finite Math, etc.)
- Readiness – There are students that have shown mastery of the subject matter at their grade level. This provides them with material that they are “ready” for.

Placement Exam

All students will be invited to take a Math 7H entrance exam, which will challenge students with material they have worked with in grade 6, as well as some material that goes beyond the scope of this year's curriculum. We will provide this exam on Tuesday, June 21st during the period 1 & 2 block. Prior to administration, parents will be asked to submit their intent for their child to take the exam or to not sit for the assessment. Students that choose to take the exam will take a break from classwork that has been assigned, and will be responsible to make up the work, while those that do not sit for the exam will remain engaged in the classwork assigned during the test.

Structure of Entrance Exam

- 26 questions in total
 - (18) Part I - Short Answer questions
 - (6) Part II - Constructed Response questions
 - (2) Part III - Multi step
- No Calculator for part I / Calculator use for parts II and III

Selection Criteria

Students will be selected based upon their scores using the following criteria:

60% - Math 6 final grade

30% - Math 7H entrance exam

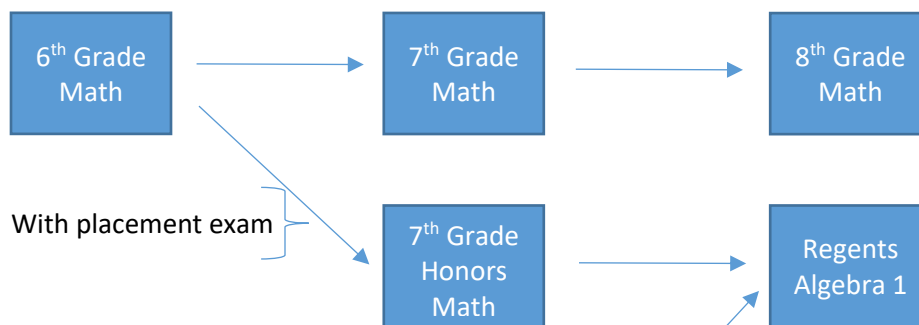
10% - Overall Grade Point Average in grade 6

Pathway 1:

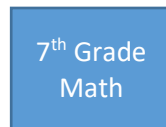
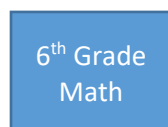
6th Grade

7th Grade

8th Grade



Pathway 2:



With a 95% average grade or higher, AND
With a 90% or higher score on Final Exam
*summer work required