



# Reed Mathematics

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# Tonight's Overview

- ▶ Program Philosophy
- ▶ Mathematics Program
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  - ▶ Placement Criteria
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- ▶ Comparison of Math Plus
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# Mathematics Philosophy

*The K-12 mathematics curriculum in Newtown is designed to ready students for the real world by challenging them to*

- ▶ *problem solve*
- ▶ *develop curiosity*
- ▶ *collaborate*
- ▶ *reason and think critically*
- ▶ *locate, evaluate, process, produce and synthesize information using a wide variety of resources and analysis techniques.*

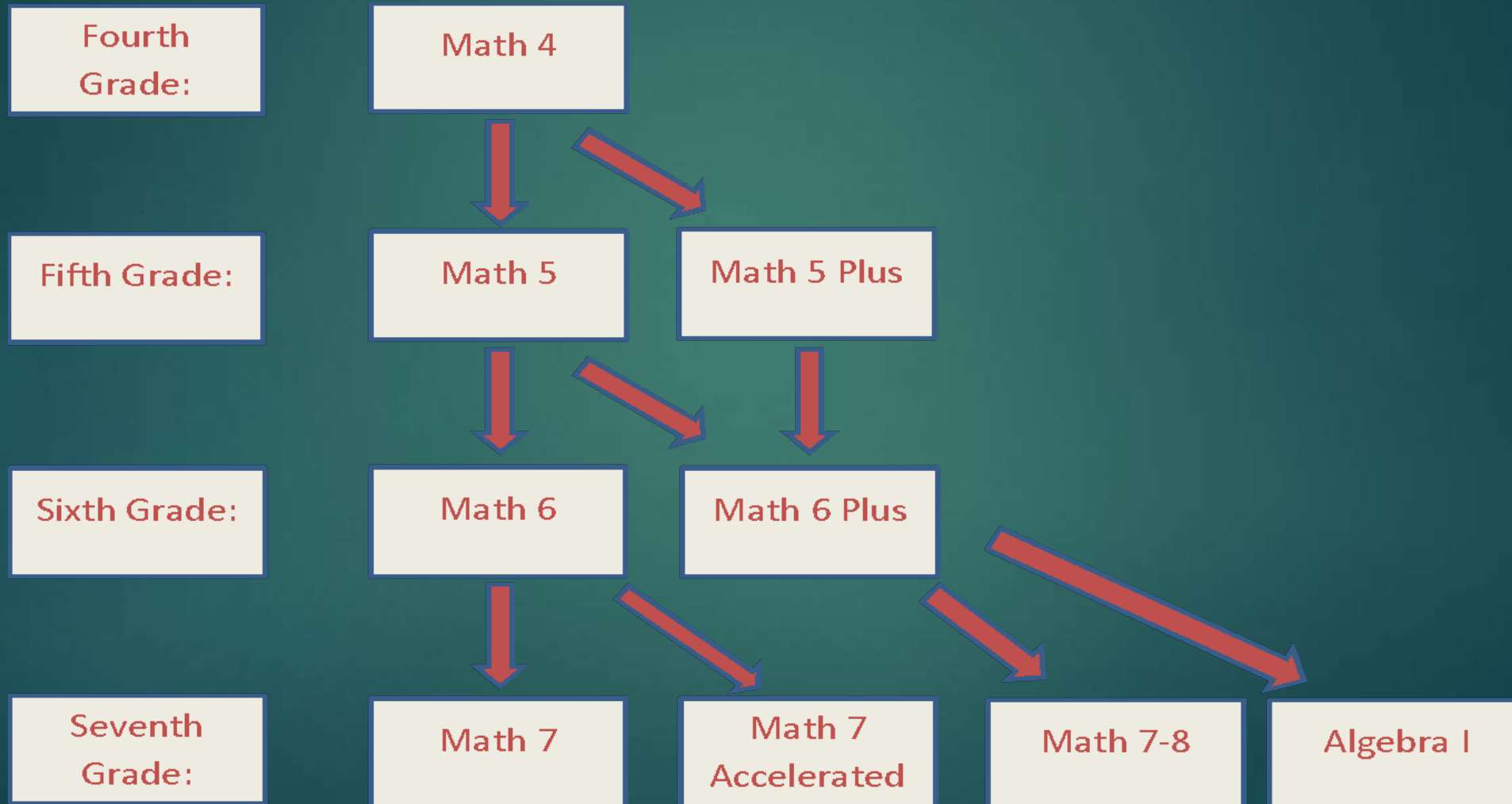
*-from Newtown Mathematics Philosophy*

# Mathematics Resources

- ▶ Elementary: *Origo Stepping Stones (2013)*
- ▶ Intermediate : *enVision Math (2014)*
- ▶ Middle School: *Big Ideas (new this year)*
- ▶ High School Program: *Multiple resources by course*

# Reed Intermediate School

## Math Pathways Grades 5, 6, 7



# Criteria for Placement

- ▶ Grade 4 to 5:
  - ▶ Module assessments average
  - ▶ NWEA MAP Math scores
  - ▶ OLSAT Non-Verbal section score
  - ▶ Performance Tasks
  - ▶ Anecdotal data
- ▶ Grade 5 to 6:
  - ▶ Unit assessments average
  - ▶ NWEA MAP Math scores
  - ▶ Grade 4 Smarter Balanced level
  - ▶ Performance on universal assessment
- ▶ Newly entering NPS
  - ▶ OLSAT Non-Verbal section scores (if available)
  - ▶ NWEA Map Math scores (summer testing)
  - ▶ Other available information from prior school's record



# Identification Process for Incoming 5<sup>th</sup> Grade Math Placement



- ▶ Informational letter sent to 4<sup>th</sup> Grade Parents (last week)
- ▶ Information Sessional held at Reed (today April 27<sup>th</sup>)
- ▶ Performance tasks administered at Elementary Schools (Sandy Hook May 8<sup>th</sup>, Hawley May 10<sup>th</sup>, Head O'Meadow and Middle Gate May 11<sup>th</sup>)
- ▶ Data reviewed during May, placement decisions finalized (May)
- ▶ Parents notified of math placement decision (on or around June 1<sup>st</sup>)

# Mathematical Practice Standards



- ▶ Make sense of problems and persevere in solving them
- ▶ Reason abstractly and quantitatively
- ▶ Construct viable arguments and critique the reasoning of others
- ▶ 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



# Standard Math 5 vs. Math 5 Plus

## Standard Math 5

Students will complete the curriculum with a focus on using the 8 mathematical practice standards.

- ▶ Operations and Algebraic Thinking
- ▶ Number and Operations in Base Ten
- ▶ Number and Operations—Fractions
- ▶ Measurement and Data
- ▶ Geometry

## Math 5 Plus

Students will progress through the content of units at a quicker pace spending additional time on application and expanded concepts in the curriculum, while focusing on the mathematical practice standards.

- ▶ **Expressions and Equations**

# Standard Math 6 vs. Math 6 Plus

## Standard Math 6

Students will complete the curriculum with a focus on using the 8 mathematical practice standards.

- ▶ Ratios and Proportional Relationships
- ▶ The Number System
- ▶ Expressions and Equations
- ▶ Geometry
- ▶ Statistics and Probability

## Math 6 Plus

Students will progress through the content of units at a quicker pace spending additional time on application and expanded concepts in the curriculum, while focusing on the mathematical practice standards.

- ▶ **The Number System (Rational Numbers with all operations)**
- ▶ **Geometry (2 and 3 dimensional geometry)**
- ▶ **Probability**

# Exiting Expectations

## Standard Math 5

- ▶ All Standard Math 5 students progress will be re-evaluated at the end of 5<sup>th</sup> grade for consideration into Math 6 Plus.

## Math 5 Plus

- ▶ Students successfully completing Math 5 Plus will possess the necessary mathematical skills, conceptual understandings and problem-solving ability to progress to Math 6 Plus.

## Standard Math 6

- ▶ All Standard Math 6 students will be considered for placement into either Math 7 or Math 7 Accelerated.

## Math 6 Plus

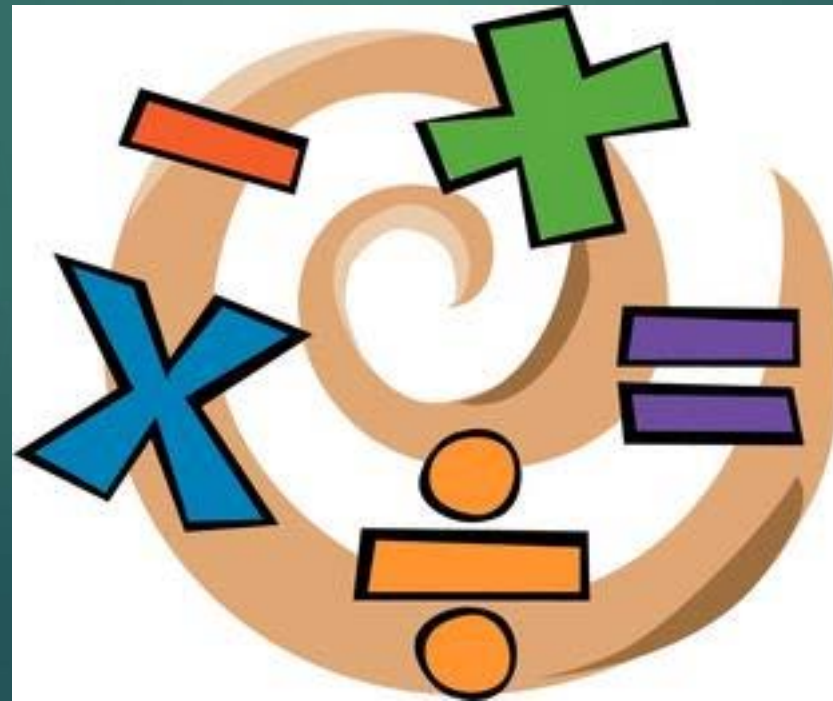
- ▶ Students successfully completing Math 6 Plus will possess the necessary mathematical skills, conceptual understandings and problem-solving ability to progress to either Math 7-8 or Algebra I in 7<sup>th</sup> grade.

# Other considerations:

- ▶ Typically students in the Plus class will move to the next Plus class; if a student has struggled, parents are contacted for input into the next year's placement.
- ▶ Important to note that both Math 7-8 and Math 7 Accelerated are pathways to Algebra I in 8<sup>th</sup> grade.
- ▶ There is more than one path to Algebra in 8<sup>th</sup> grade.
- ▶ A small percentage of students will qualify for Algebra in 7<sup>th</sup> grade after demonstrating mastery of 8<sup>th</sup> grade concepts.

Click on Newtown Math Pathways  
for more information about K-12 Math

Newtown Math Pathways



# Questions and Answers