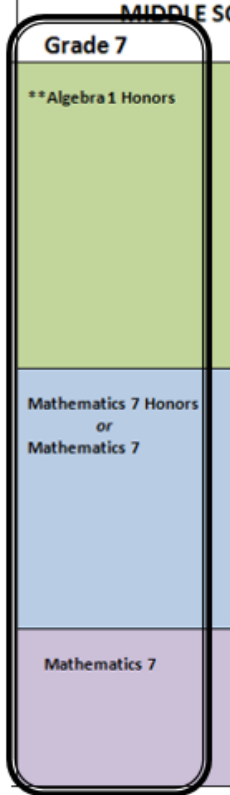


**Thoreau Middle School  
Rising 7<sup>th</sup> Grade Parent Night  
Mathematics Options**

February 2019

# MATHEMATICS ACADEMIC SEQUENCE OF COURSES K-12

MIDDLE SCHOOL		HIGH SCHOOL			
Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
**Algebra 1 Honors	Geometry Honors	Algebra 2 Honors <i>or</i> Algebra 2	*Precalculus Honors <i>or</i> *Precalculus	AP Calculus BC <i>or</i> AP Calculus AB	Multivariable Calculus <i>or</i> AP Elective
		Algebra 2 Honors <i>or</i> Algebra 2	*Precalculus Honors <i>or</i> IB Standard Level Mathematics I <i>or</i> *Precalculus	IB Higher Level Mathematics I <i>or</i> IB Standard Level Mathematics I	IB Higher Level Mathematics II <i>or</i> IB Standard Level Mathematics II
Mathematics 7 Honors <i>or</i> Mathematics 7	Algebra 1 Honors <i>or</i> Algebra 1	Geometry Honors <i>or</i> Geometry	Algebra 2 Honors <i>or</i> Algebra 2	*Precalculus Honors <i>or</i> *Precalculus	AP Calculus BC <i>or</i> AP Calculus AB
		Geometry Honors <i>or</i> Geometry	Algebra 2 Honors <i>or</i> Algebra 2	*Precalculus Honors <i>or</i> IB Standard Level Mathematics I	IB Higher Level Mathematics I <i>or</i> IB Standard Level Mathematics II
Mathematics 7	Pre-Algebra	Algebra 1 <i>or</i> Algebra 1 Honors	Geometry <i>or</i> Geometry Honors	Algebra 2 <i>or</i> Algebra 2 Honors	*Precalculus <i>or</i> *Precalculus Honors <i>or</i> IB Mathematical Studies SL



# Algebra 1 HN

Each of the following criteria needs to be met for placement in Algebra I Honors at 7<sup>th</sup> grade:

- AAP 6 or a year-long accelerated mathematics course
- Iowa Algebra Aptitude Test (IAAT) score at or above the 91<sup>st</sup> percentile
- A score of pass advanced (500 or above) on the Mathematics 7 SOL test

By signing your child up for this course, you are also signing your child up for Geometry HN as an 8<sup>th</sup> grader.



Grade 7

\*\*Algebra 1 Honors

Mathematics 7 Honors  
or  
Mathematics 7

Mathematics 7

# Mathematics 7 HN

- This class is “open enrollment”
- The depth and level of understanding in Mathematics 7 Honors is beyond the scope of Mathematics 7. It is an acceleration of the mathematics curriculum.
- This course is the Pre-Algebra curriculum and includes all extensions and enrichment .
- Requires students to master the content assessed on the **Mathematics 8 Standards of Learning (SOL) test.**

Grade 7

\*\*Algebra 1 Honors

Mathematics 7 Honors  
or  
Mathematics 7

Mathematics 7

# Mathematics 7 Honors

- Students who have NOT successfully completed an entire year of AAP Mathematics 6 may need support and/or require additional independent effort and study to be successful.

Grade 6 —————→ Mathematics 7 Honors

An entire year of mathematics 7  
(pre-algebra content) is missed



# Some topics missed...

- Two step equation solving
- Two step inequality solving and graphing
- Order of operations with fractions and decimals
- Three-dimensional geometry
- Functions (slope-intercept form)
- Proportional reasoning
- Percent applications



# Mathematics 7

Both mathematics 7 **AND** mathematics 7 Honors prepare students for Algebra 1 in grade 8.

Grade 7

\*\*Algebra 1 Honors

Mathematics 7 Honors  
or  
Mathematics 7

Mathematics 7

# Mathematics 7

- This course provides opportunity for students to examine:
  - Algebra- and geometry-preparatory concepts and skills;
  - Strategies for collecting, analyzing, and interpreting data;
  - Number concepts and skills especially proportional reasoning.



# How do I best decide?

- Recommendation from the current 6<sup>th</sup> grade teacher
- Seek additional information regarding the rigor of the courses from Thoreau teachers
- Wait for SOL/IAAT test scores to come in
- Finally ...

**Ask your child: "What do you want to be taking your senior year of high school in mathematics?"**

Algebra 1 HN in 7th grade...Multivariable Calculus in 12th grade

Mathematics 7 HN in 7th grade...AB or BC Calculus in 12th grade

Mathematics 7 in 7th grade...Pre-Calculus in 12th grade.



# Still unsure which way to go??

We can answer your questions regarding what is in the curricula and the pacing for each course.

If you have questions regarding the correct academic placement for your child contact your child's current 6<sup>th</sup> grade teacher



# Contact Us

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