

Olmsted Math Program

Middle School

Acceleration begins in grade 6
Students acceleration is based
on the following criterion:
New York State Assessment
Final Math Average
Teacher Recommendation
Parent Recommendation

High School Sequence

Algebra 1
Geometry
Algebra 2 and Trigonometry
Pre-Calculus
Advanced Placement Calculus
or Statistics
Business Math

College and Career Ready
80%

New York State
Common Core
Shifts in Mathematics

Shift 1:

Focus: Learn more about less

Students must...

- Spend more time on **fewer concepts**

Parents Can...

- **Know what the priority work** is for your child for their grade level
- Spend time with your child on priority work
- Ask your child's teacher about their progress on priority work

Shift 2:

Skills Across Grades

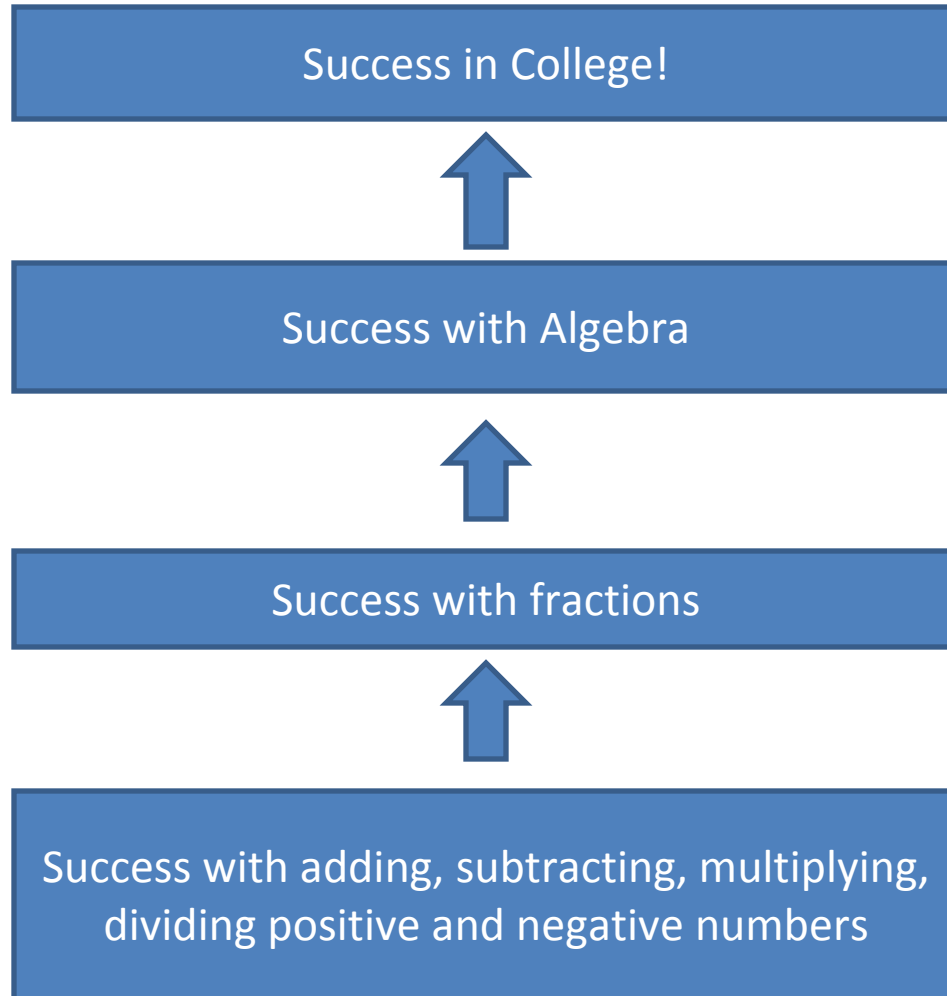
Students Must...

- **Keep building** on learning year after year

Parent Can...

- Be aware of what your **child struggled with last year** and how that will affect learning this year
- Advocate for your child and ensure that support is given for “**gap**” skills – negative numbers, fractions, etc.

Research from the National Advisory Panel



Shift 3:

Speed and Accuracy

Students Must...

- Spend time **practicing** lots of problems on the same idea

Parents Can...

- **Push children** to know/memorize basic math facts
- Know all of the fluencies your child should have and prioritize learning of the ones they don't

Key Fluencies

- Grade K: Add/subtract within 5
- Grade 1: Add/subtract within 10 and 20
- Grade 2: Add/subtract within 100 (paper and pencil)
- Grade 3: Multiply/divide within 100
Add/subtract within 1000
- Grade 4: Add/subtract within 1,000,000
- Grade 5: Multi-digit multiplication and division
- Grade 6: Multi-digit decimal operations
- Grade 7: Solve equations
- Grade 8: Solve simple 2×2 systems by inspection

Shift 4:

Know it/Do it!

Students Must...

- **Understand** why the math works.
Make the math work.
- **Talk** about why the math works
- **Prove** that they know why and how the math works

Parents Can...

- Notice whether your child **REALLY** knows why the answer is what it is
- Advocate for the **TIME** your child needs to learn key math
- Provide **TIME** for your child to work hard with math at home
- Get smarter in the math your child needs to know

Shift 5: Real World

Students Must...

- Apply math in **real word** situations
- Know **which math** to use for which situation

Parents Can...

- Ask our child to **DO** the math that comes up in your daily life

Shift 6:

Think Fast/Solve Problems

Students Must...

- Be able to use **core math facts** fast

AND

- Be able to apply math in the real world

Parents Can...

- Notice which sides of this coin your child is smart at and where he/she needs to **get smarter**

- Make sure your child is **PRACTICING** the math facts he/she struggles with

- Make sure your child is thinking about Math in real life

Common Core Resources on EngageNY