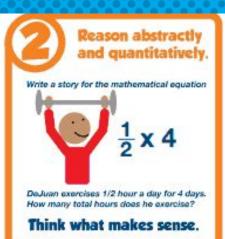
SYOSSET MATHEMATICS AND BUSINESS K-12

March 13, 2023
Syosset Central School District
Board of Education Presentation

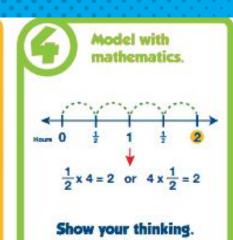
MATHEMATICAL LITERACY THEN AND NOW...

1.0	2.0
"Plug and chug"	Conceptual math
Workbook is the curriculum	Students learn using strategically selected resources
Mathematics learned in block period	Mathematics and business as a literacy integrated anywhere



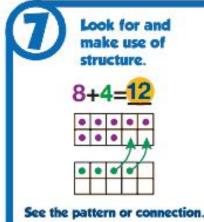








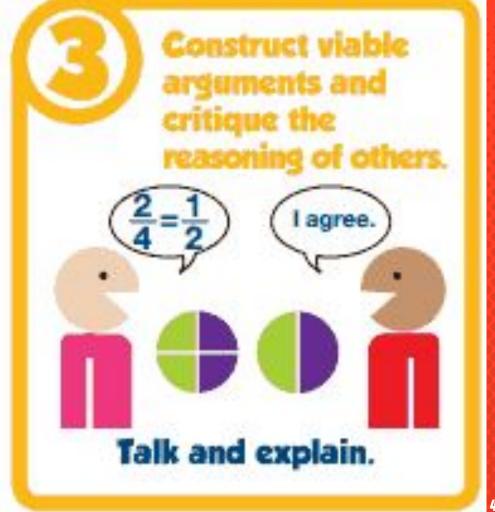






OVERARCHING PRACTICE

 Only with deep conceptual knowledge can students synthesize, analyze, and reason.



ELEMENTARY MATH

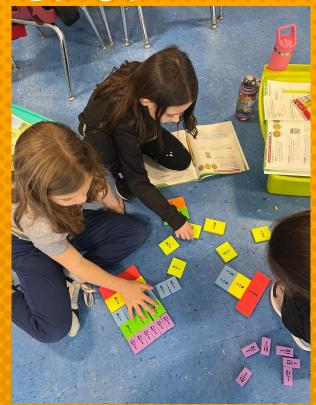
From the workbook to the workshop...

FROM COMMON CORE TO NEXT GENERATION...

- × Go Math was our big shift
- × New norm: math outside the workbook
 - × Workshop model
 - × Flexible reasoning
 - × Applying concepts
 - × Habits of mind across disciplines

WORKBOOK TO WORKSHOP





MIDDLE SCHOOL MATH AND BUSINESS Smoothing transitions

SHOOTHING.

- 5th into 6th grade curriculum and resource development
- 8th into 9th grade curriculum and placement guidance

MOVING THE MIDDLE







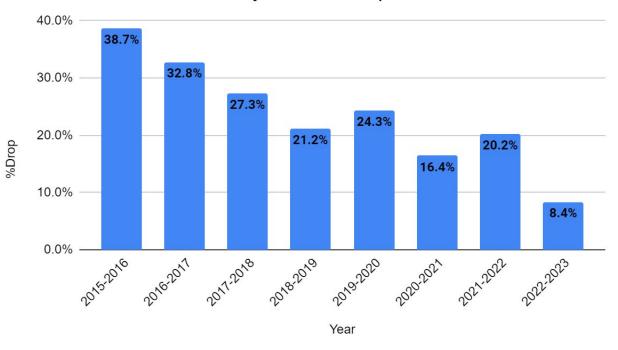
HIGH SCHOOL MATH AND BUSINESS

Mathematical literacy as a vehicle to producing insight

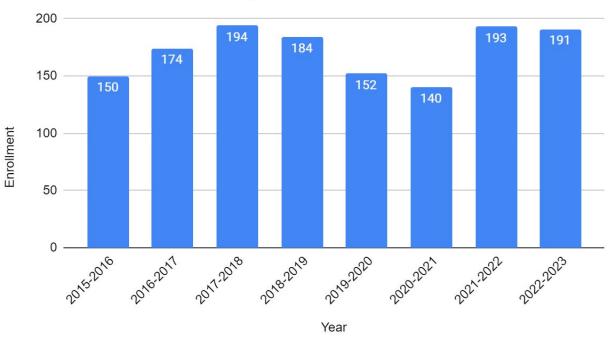
SHOOTHING **

- × Student retention while maintaining participation
- Continued development of integrated coursework where students develop insights

Geometry Honors Drop Rate







CROSSCUTTING CONCEPTS

Students uncovering and debating the intersection of math, business, and history!







CROSSCUTTING RESEARCH

The insights our students can produce when conceptual learning is the norm!

€ docs.google.



Black-Scholes Partial Differential Equation and Chebyshev Polynomials for Options Pricing

Aanika Shah Teachers: Ms. O'Rourke and Ms. Brown

WHAT'S NEXT!!??

<u>Elementary</u> <u>Middle</u> <u>High School</u>

Math 3.0 Next AP Precalculus

Generation

aligned regents

exams

THAM 70]]

