

K-12 MATH AND BUSINESS DEPARTMENTS

February 17, 2022



Lauren Tallarine

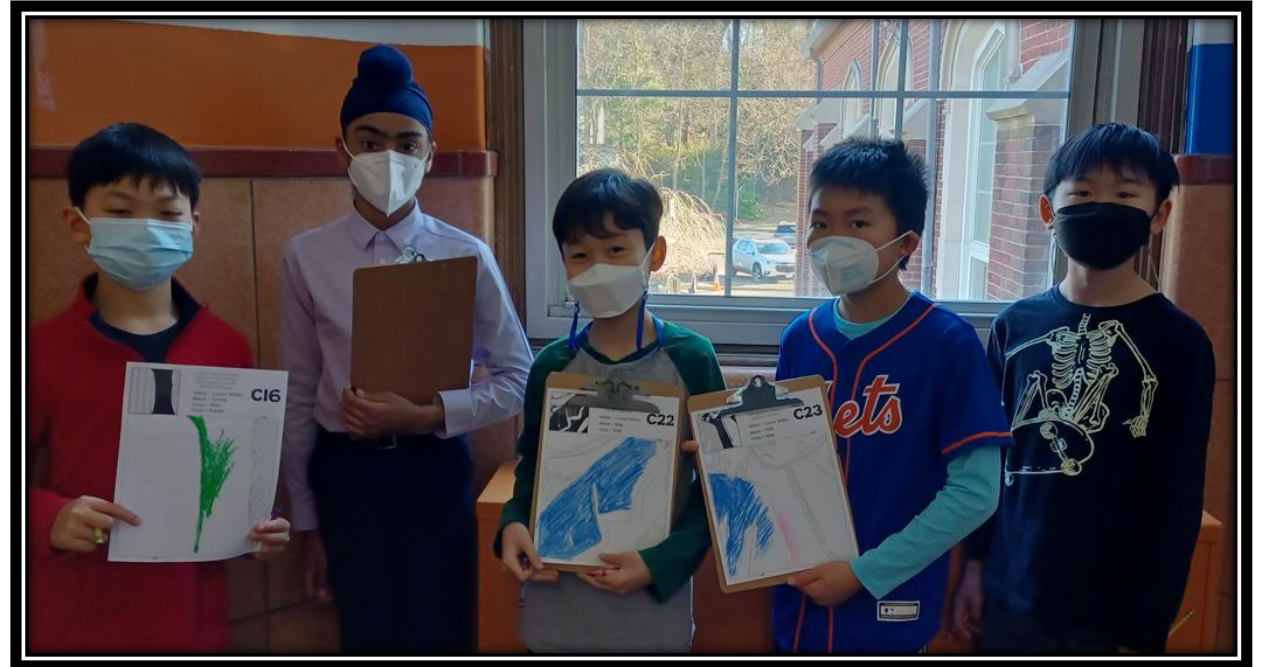
Director of Mathematics and Business, K - 12

PRESENTATION OVERVIEW

- Welcome
- Looking Back
- Looking Ahead

LOOKING BACK...

- Focus on accessibility
- Examination of pathways
- Enriched curriculum



LOOKING AHEAD...

- Review of District Priorities
- Math/Business Department Alignment with Priorities
- Math/Business Department Efforts

PRIORITY AREA 1: CONNECTIONS

Strengthen the quality of the relationships throughout the organization.



PRIORITY AREA 2: ENHANCING PROFESSIONAL PRACTICE

Create and sustain a robust professional growth plan for each individual in our organization and ensure that each student experiences a curriculum that is rigorous, engaging, and consistent.



PRIORITY AREA 3: STUDENT INCLUSIVITY, OPPORTUNITIES, AND SUPPORT ⁷

Foster a learning environment in which each student is engaged and encouraged to define their unique pathway, aligned to their individual goals.



ALIGNMENT OF PRIORITIES WITH MATH/BUSINESS DEPARTMENT GOALS:

Recognize the interconnectedness of the district's priorities as they relate to the formation of a community where all members have a safe space conducive to learning, taking risks, receiving support, and challenging themselves.



OUR EFFORTS

- Recognition letters for Secondary School students
- Support for teachers' professional accomplishments & growth
- Summer Programs
- AIS Partnerships
- Restructuring of elementary math pathways
- Enriched Elementary Program
- After-school Enrichment Program Model
- Secondary School Course Offerings
- Computer Science Pathway
- Business Department Courses
- Extracurricular Offerings

RECOGNITION LETTERS FOR SECONDARY SCHOOL STUDENTS

- Each teacher identified 5 - 10 students who demonstrated strong work ethic, character, and/or effort
- Students received a letter mailed to their home



Manhasset Public Schools

Lauren Tallarine
Director of Math and Business, K-12

Dear Student,

Last week, the math department gathered together to discuss the student experience here at Manhasset. Your name surfaced as a student who has consistently demonstrated strong effort in your current math class. We recognize that returning to school this fall has presented a variety of challenges for individuals and are so appreciative of your strong work ethic at this time. Your commendable effort has contributed to building a stronger and better school community for all.

You should be very proud of yourself! Please show this letter to your family, too, so that they can share in this honor!

Wishing you and your family a healthy and happy holiday season.

Warmly,

Lauren Tallarine

SUPPORT FOR TEACHERS' PROFESSIONAL ACCOMPLISHMENTS & GROWTH

- Maintaining a cohesive department
- Formal & informal professional development
- Connecting like-minded teachers
- Showcase teacher and student work



@MathassetLT

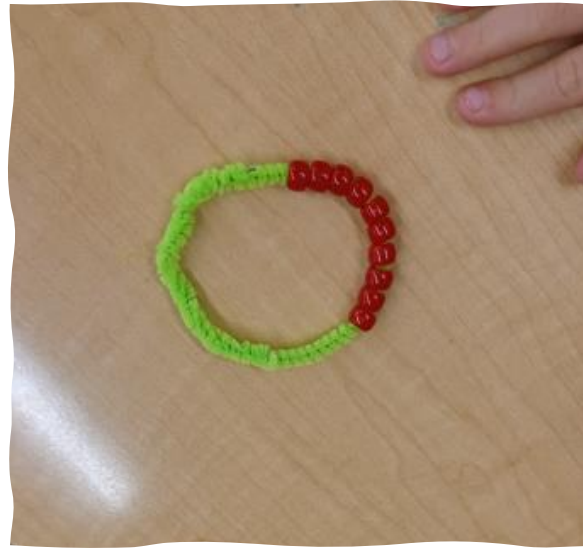
SUMMER PROGRAMS

- Academic Intervention Services for grades K - 6
- Partnership with the EOC
- ELA, Math, & Counseling for grades 7 & 8



AIS PARTNERSHIPS WITH SPECIAL EDUCATION AND ENL DEPARTMENTS

- School Store
- Number Sentence Bracelets with kindergarten students



AIS PARTNERSHIPS WITH SPECIAL EDUCATION AND ENL DEPARTMENTS



RESTRUCTURING OF 5TH AND 6TH GRADE MATH PATHWAYS

What's new in Grade 5?

- Heterogeneously grouped classes
- Dedicated enrichment time
- Adjusted identification measures
- Supplemental AIS time



What's new in Grade 6?

- Grade level classes
- Early acceleration class instructed by math specialist
- Supplemental AIS time

What have we noticed?

ENRICHED CURRICULUM

- Critical Thinking
- Low Floor, High Ceiling Tasks
- Interactive & Collaborative
- Non-routine Problem Solving

Name: _____

TANGY TUESDAY™

PACK	LEVEL	WEEK
1	B	1

NUMTANGA
Step-by-step examples at tangmath.com/puzzles

In each empty box, write the matching value between adjacent cards.

16	10+7		12	10+4		28	10+9
	twenty eight			nineteen			fifteen
17	10+1		21	20+4		14	10+5
	twenty four			twenty nine			sixteen



Fill each empty box, in order, combining the numbers from the previous 2 boxes.

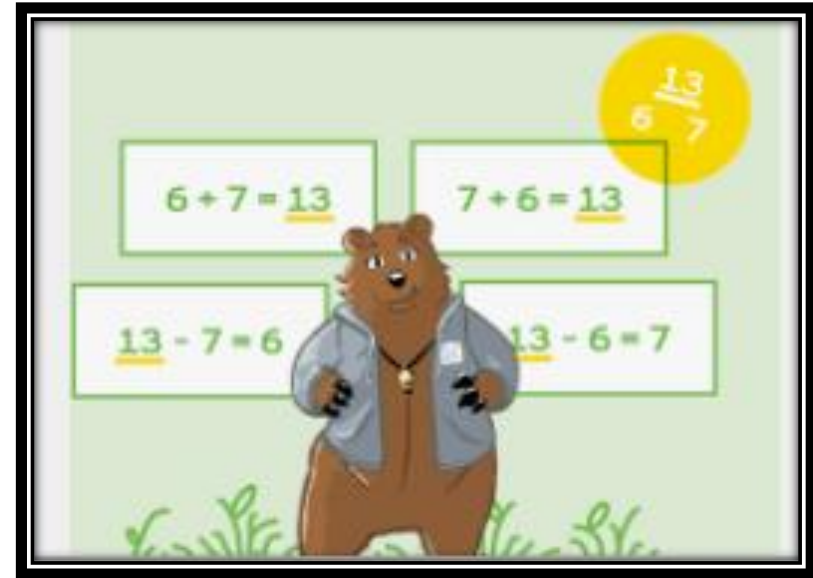
8	×3		+39		+7	×9	
							-11
	+3		-14		×5	+10	
×10							
	+11		+9		×3	-12	15
9	×5			+10		×9	
		-29		-30			-33
	+2					+3	
×9				×10		×4	
	-18		+6			-16	12

	+		+		=	27
	+		+		=	36
	+		+		=	40
	+		×		=	?

REFLEX SOFTWARE



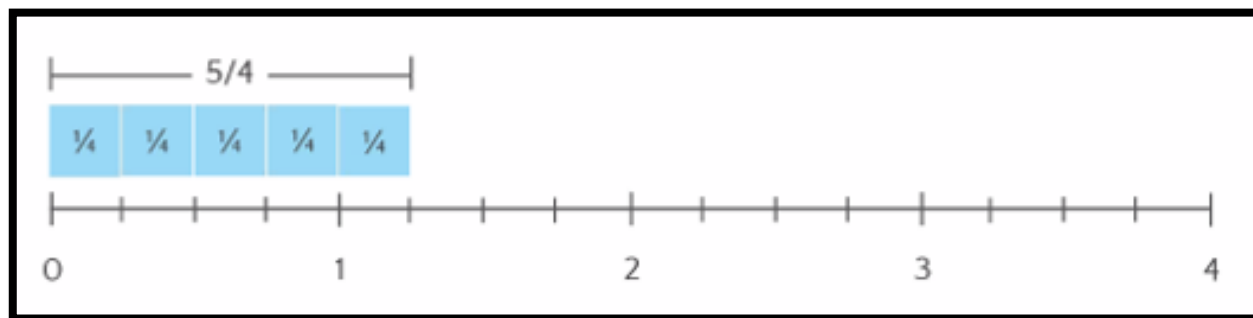
- Uses a fact family approach
- Incorporates real-time coaching
- Built-in incentives



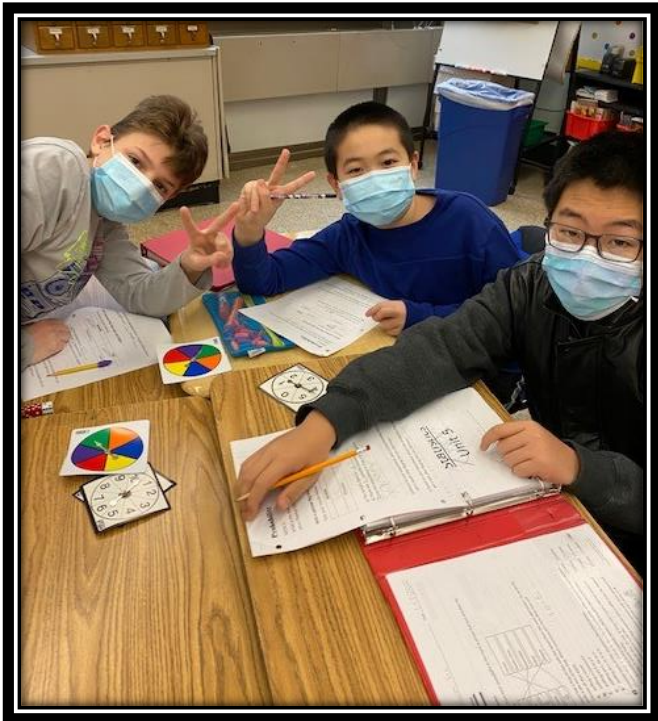
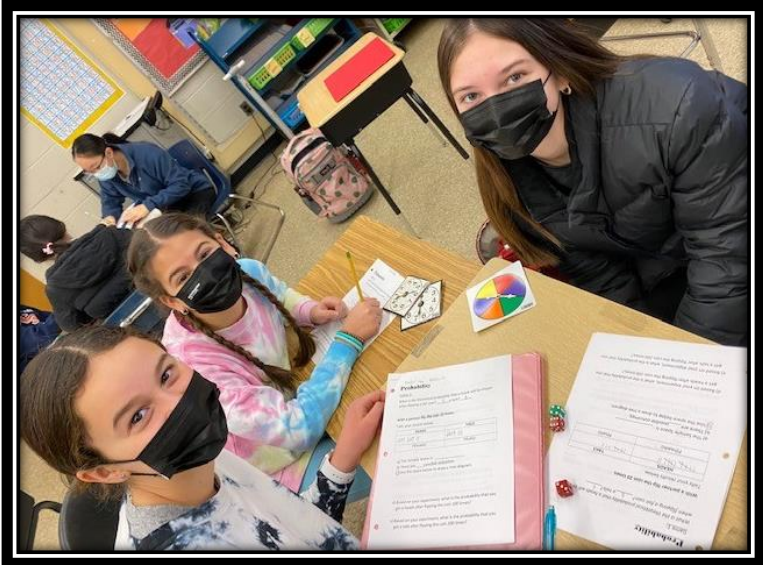
- Students collectively solved **1,180,000** facts this school year!

FRAX SOFTWARE

- Adaptive supplemental program launched this year for grade 3+
- Understanding fractions as numbers
- We are not dividing blocks, we are building up from unit fractions



ACTIVE LEARNING & COLLABORATION



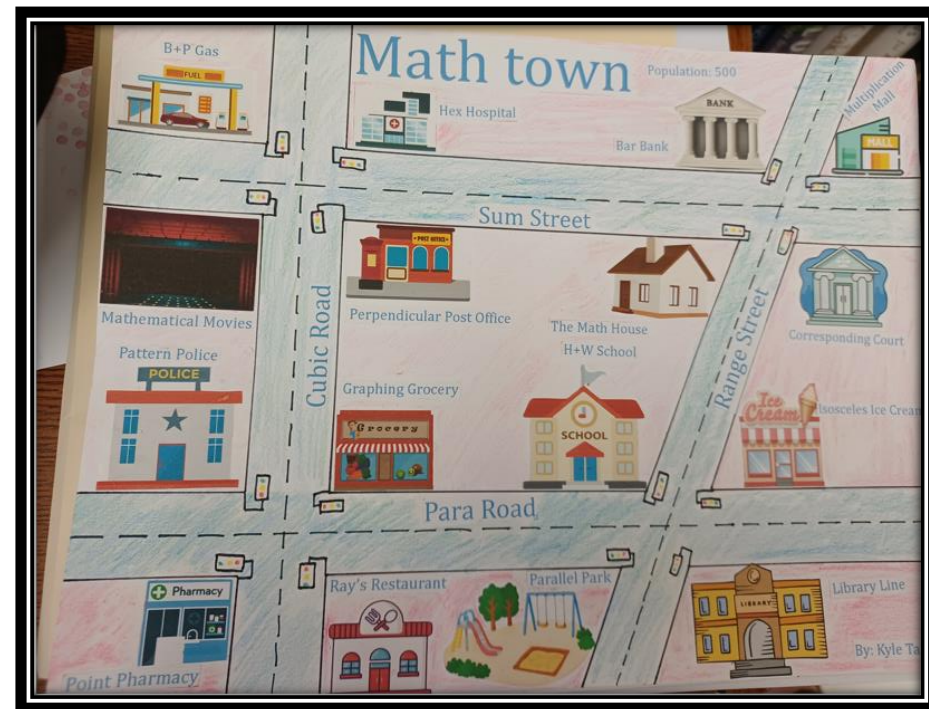
AFTER-SCHOOL ELEMENTARY ENRICHMENT PROGRAM

- Shifted from criteria-based admission to interest-based selection
- Located at student's home building
- All interested students accommodated



SECONDARY SCHOOL COURSE OFFERINGS

- 5 Advanced Placement Course Offerings
- Additional on-ramps for advanced course access
- Various support classes for 7th grade through Calculus
- Integrated Co-teaching classes through Algebra 2
- Applied Geometry and Intermediate Algebra courses



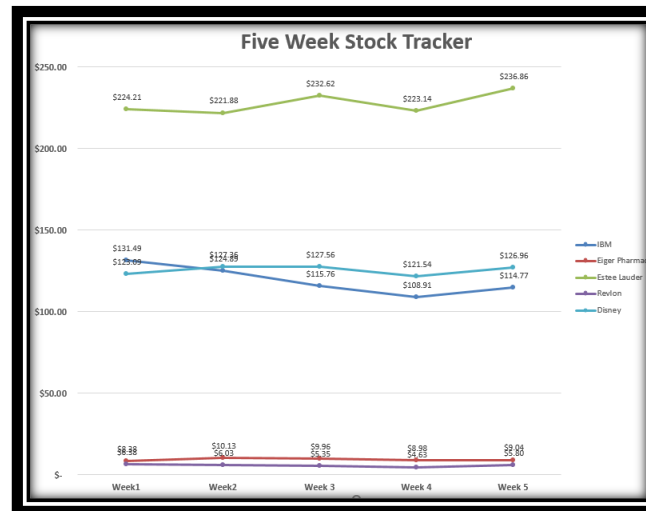
COMPUTER SCIENCE PATHWAY

- Introduction to Computer Programming
- Advanced Placement Computer Science A
- Advanced Placement Computer Science Principles



BUSINESS DEPARTMENT PATHWAY

- Introduction to Business
- Business Marketing
- Applied Business Law
- Accounting



EXTRACURRICULAR OFFERINGS

- Elementary, Middle, and High School Math Olympiads/Mathletes
- Business Marketing Club
- American Mathematics Competition
- Math Honor Society



NASSAU COUNTY MATH TOURNAMENT: FEBRUARY 4TH

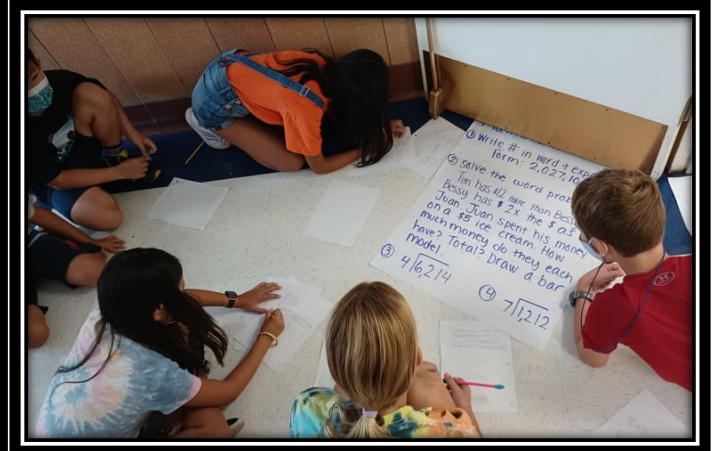
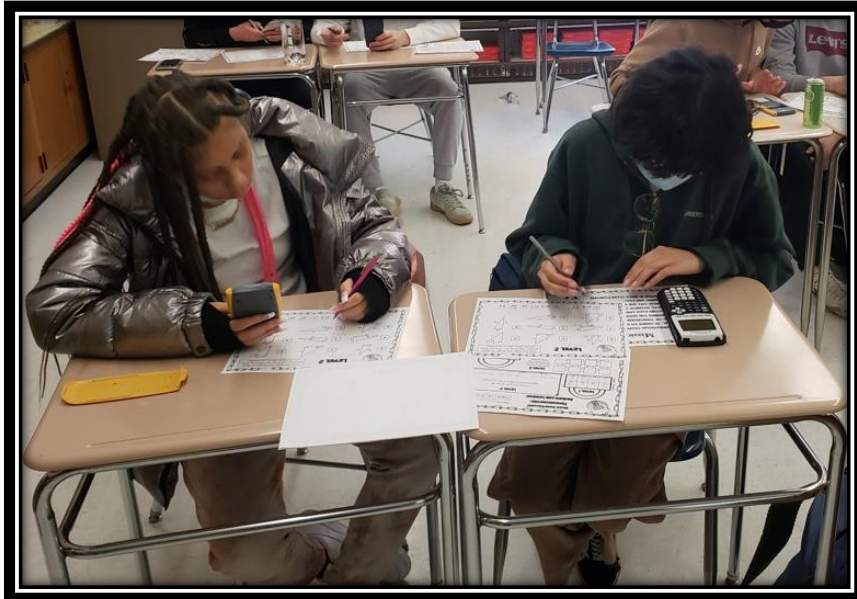
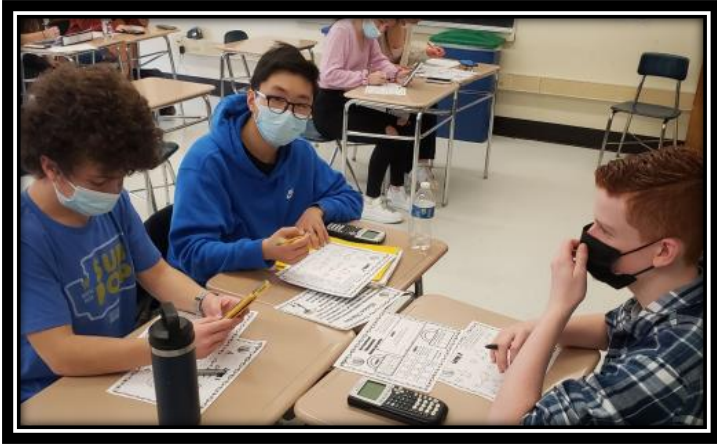


HIGHLIGHTS

- Push-in lessons
- Small group lessons
- *Ten Friends* Read Aloud



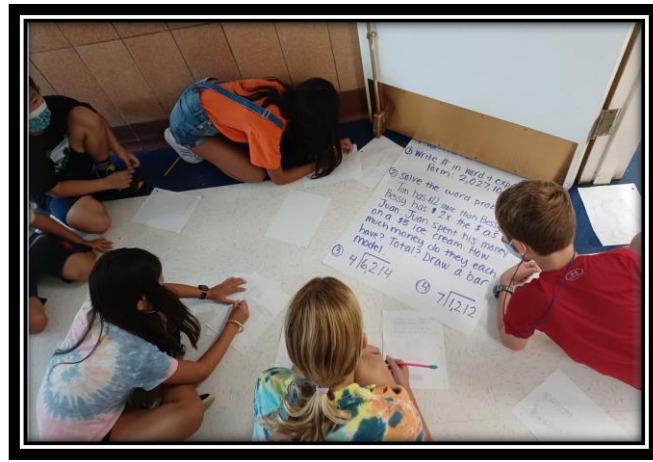
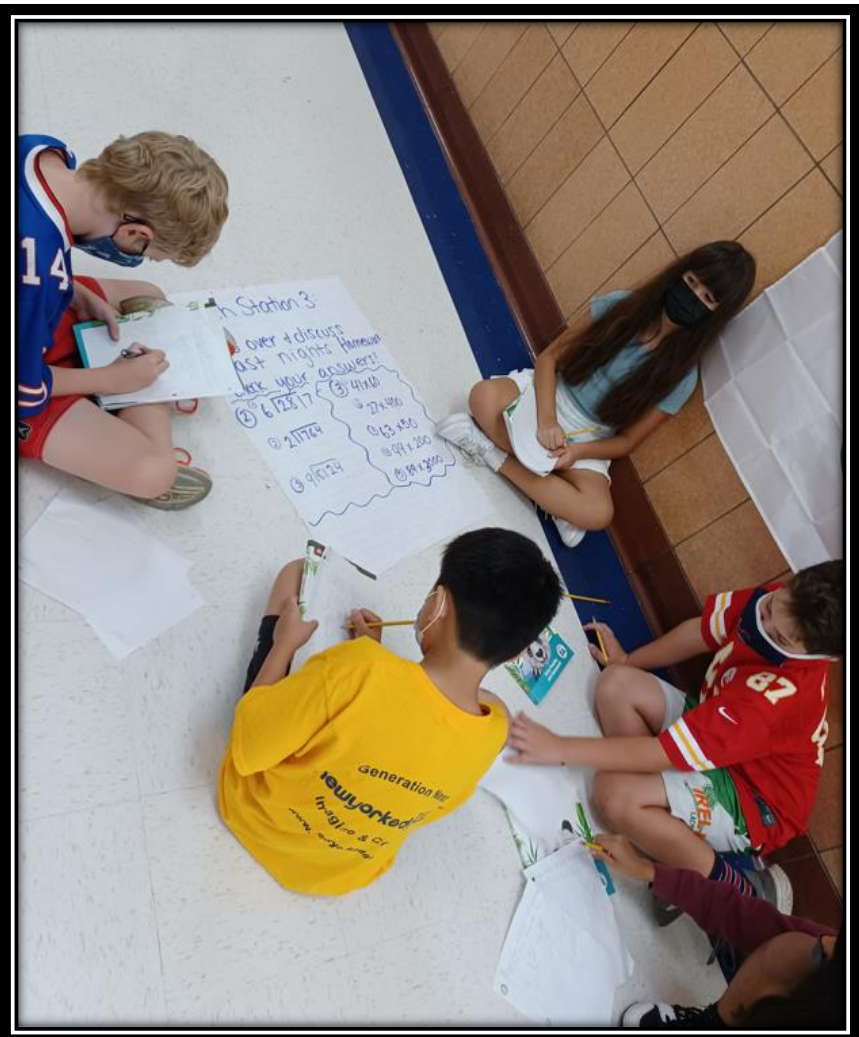
HIGHLIGHTS



MORE HIGHLIGHTS...



EVEN MORE HIGHLIGHTS...



THANK YOU FOR ATTENDING!

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