



District Highlights

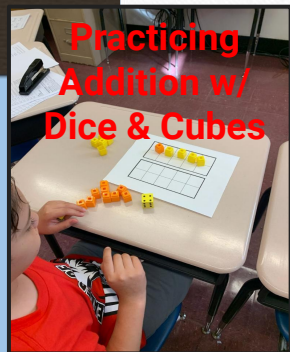
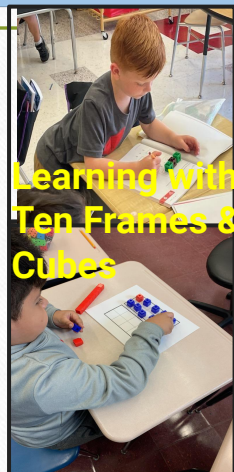
Math & Science

Curriculum and Instruction

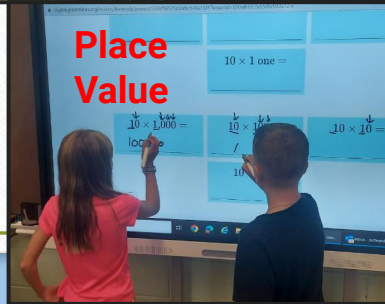
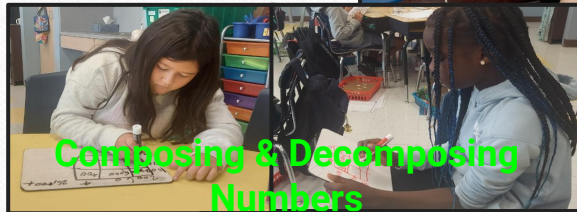
9/27/23

Elementary Math

- NYS Next Generation Mathematics Learning Standards
- **Eureka Math²- Great Minds**
 - Home/School Connections & Support
 - Digital access for all
- Math Workshop/Hands-on
- NWEA Data to support AIS & Enrichment
- Suffolk County Math Contest



Math Workshop



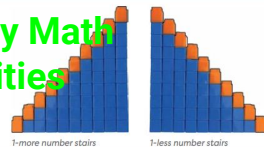
FAMILY MATH

Analyze the Count Sequence

Dear Family,

Students are exploring the sequence of numbers from 1 through 10. The number stairs make it easy to see that the next number in the count sequence is 1 more: "1; 1 more is 2." Then "2; 1 more is 3..." As they count back, students see the opposite, that each number is 1 less.

Family Math Activities

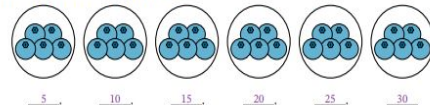


At-Home Activities

Activity Idea 1 Number Detective

Homework Helpers

1. Use the picture for parts (a) and (b).



a. Skip-count by 5.

b. Fill in the blanks to match the picture.

6 groups of 5 is 30.

6 fives is 30.

6 × 5 = 30

The product is 30.



I can multiply the number in each group by the number of groups.

In multiplication, the total is called the product.

6 × 5 = 30
Product

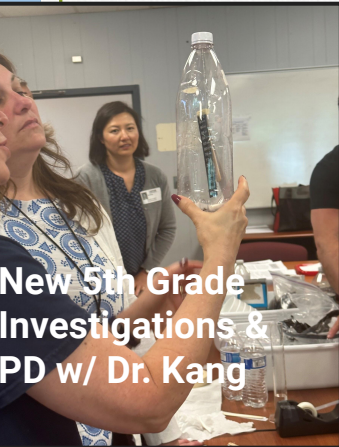
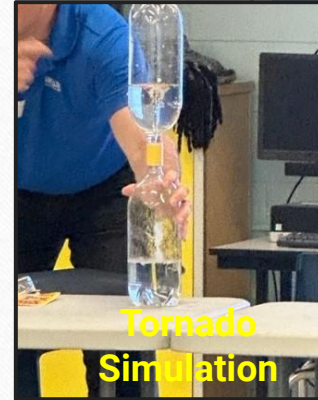
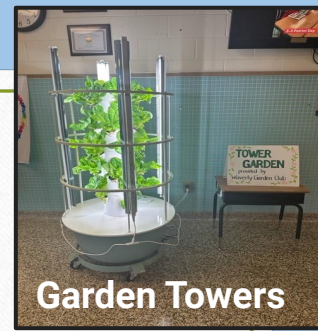
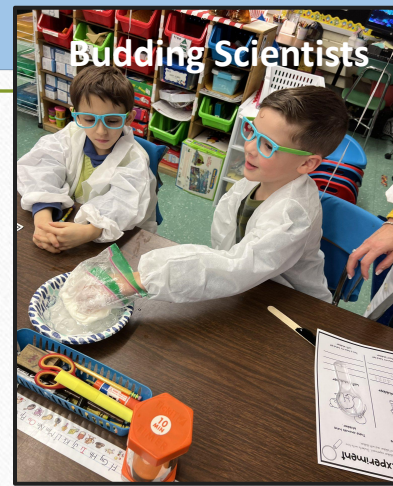
Whole-class
Mini-Lesson
(10-20 minutes)

Small Group Work
Guided & Independent Practice
(40-50 min)

Share-Debrief-Review
(5-10 minutes)

Elementary Science

- NYS P-12 Science Learning Standards
- Building Blocks - Carolina Science Kits
 - Hands-On, Labs
 - Digital Platform
- New NYS Science Investigations- kits, PD w/Dr. Kang
- STEAM Rooms
- Tower Gardens



Elementary Science

Teacher: Allison Dassau, Merrimac Elementary, 3rd Grade, STEAM PA

Forces & Interactions

Roller Coasters

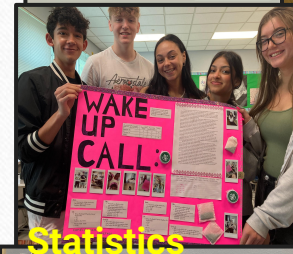
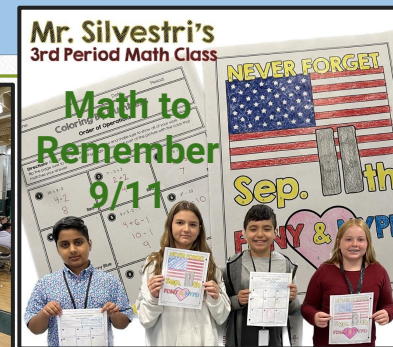


Team Work

- NYS Next Generation Mathematics Learning Standards
- 1 ½ periods of Math Gr. 6-8 and Algebra
- IXL - NWEA Skill Plans
- New course offerings
- Next Gen Standards implemented for Algebra
- New sections - Algebra 2 ICT
- AMC Math Competition
- Incorporate SEL into the math classroom



Math Competitions



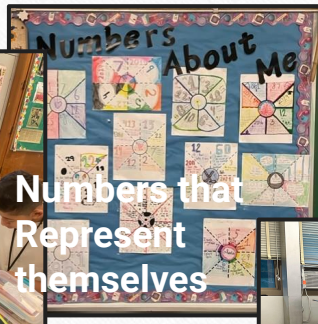
Statistics



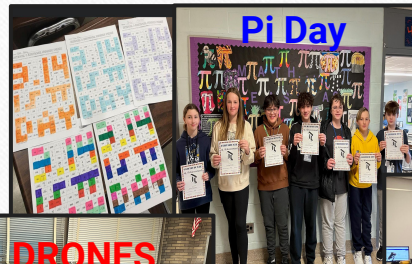
Incorporate Technology



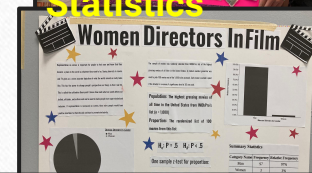
TEAM Work



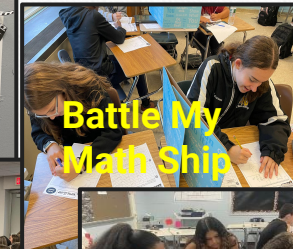
Numbers that Represent themselves



Pi Day



Sachem Graduate speaking on Data Science & AI



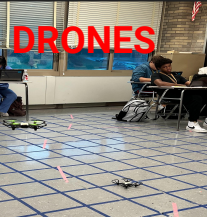
Battle My Math Ship



Hands-on Math



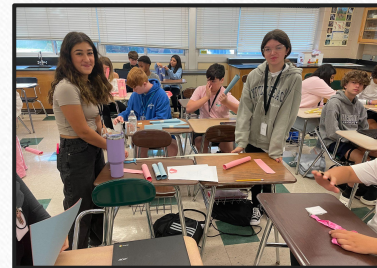
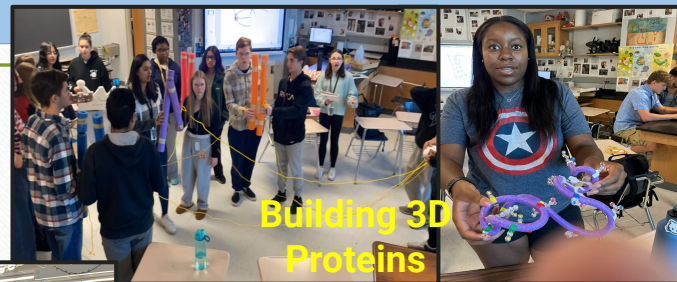
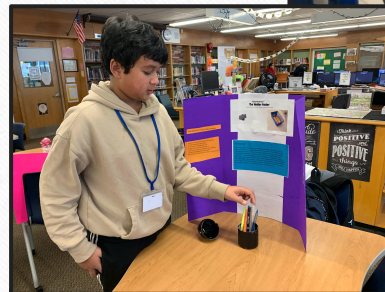
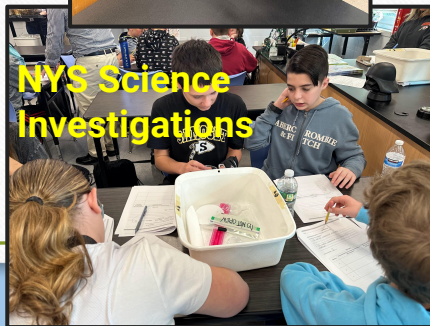
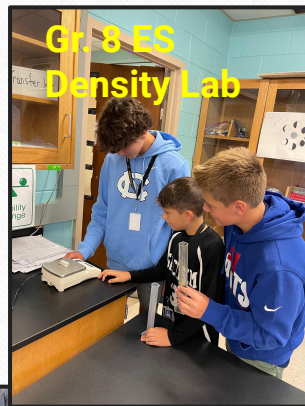
Group Work



DRONES

Secondary Science

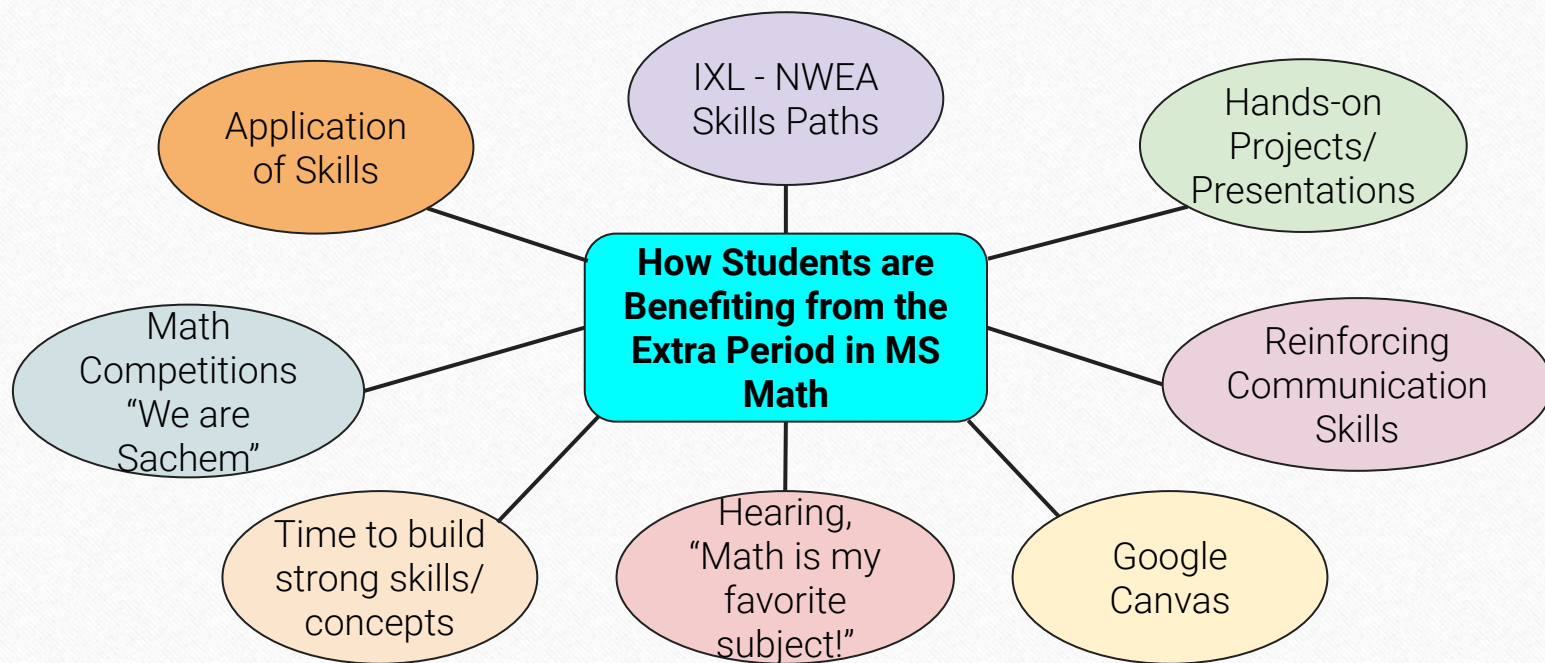
- NYS P-12 Science Learning Standards
- PD w/ Dr. Emily Kang
- Shifts in Science Instruction/Phenomenon
- New NYS Science Investigations, kits
- Digital Lab book work
- Course Dashboards
- Tower Gardens
- Science Inquiry



Observation
Inference Lab

Middle School Math

Teacher/Chair: Melissa Aronow, Seneca Middle School



Secondary STEAM

Addresses Science & Engineering Practices as well as programming expectations in the Computer Science Standards.

Teacher: Shannon Murphy, North High School



Python Programming with Drones!!

Python Programming with Drone Applications was added as an elective to the high school math department last year. In this semester-long course, students are introduced to the Python programming language while utilizing drones to complete hands-on projects. The second semester of this program, Python Programming II, was added this year. In this course, students continue to work with Python programming language and have the opportunity to become certified as an IT Specialist in Python.