

Technology Work Group Reboot: Innovate, Iterate, and Amplify

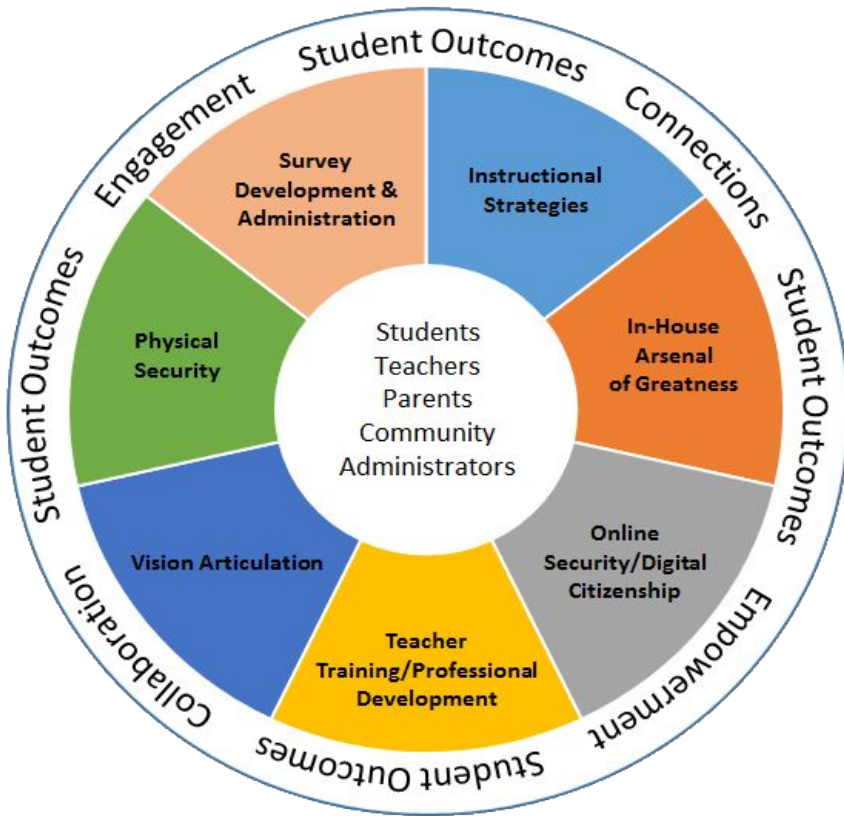
**Syosset Board of Education Meeting
April 16, 2019**

Joanne Mannion, Assistant Superintendent for Curriculum, Research, and Technology

Christine Payne, District Staff Developer



2014 - 2015: The Wheel



- District Technology Workgroup Formed in 2014-2015
- Co-Construct an Educational Technology Vision
- Focus:
 - Where are we as a District now?
 - Where do we want to go?

2015 - 2016: Pilot Projects 1.0

- **Classroom Instruction**
- **Project-Based Learning**
- **Active Learning Spaces**
- **Student Support**
- **Explore Devices including Chromebooks and Tablets**

2016-2017: Pilot Projects 2.0

- **Grade-Level Chromebook Carts**
- **Library Active Learning Spaces: HBT Library & SW Maker Space**
- **Professional Learning Adjacency: HBT Studio & RL Studio**
- **Science Simulation & Inquiry-based Learning**
- **All Language Adjacency (World Language, ENL, ELA)**
- **K-2 Tablet Adjacency**
- **Grade 3-5 Blended Learning Adjacency**
- **High School Flip & Blend**
- **iPadding to Independence**
- **MAKE & STEAM Adjacency**

Fall 2016: Technology Work Group

Why Statement

We believe that through education we can ignite curiosity that fuels motivation, innovation, collaboration, and problem-solving skills using technology as a pivotal tool to maximize student contributions in an ever changing world.

Spring 2017: Board of Education Technology Initiative Plan

https://www.syossetschools.org/site/handlers/filedownload.ashx?moduleinstanceid=795&dataid=3770&FileName=Syosset_Central_School_District_Technology_Plan.pdf

“Thank You for Being Late” by Thomas Friedman

“The workplace is being globalized, digitized, and roboticized at a speed, scope, and scale we’ve never seen before. It is hard to think of any career not being touched by this process.”

Learning Opportunities Identified

- | | |
|---|---|
| ★ Optimize Needs of Learner | ★ Provide Blended Learning Environments |
| ★ Include Tech-Rich Learning Spaces | ★ Enhance Opportunities for Collaboration/Problem-Solving |
| ★ Support Practice and Skill Development | ★ Provide Opportunities for Project-Based Learning |
| ★ Encourage Opportunities to Learn Topics of Personal Interest and to Practice Exploration & Research | ★ Instill a Mindset of Lifelong Learning |

Spring 2017: Pilot Projects 2.5

- **K-8 Additional Chromebook Carts & Tablets**
- **Chromebook Carts - Grades 9-12 Content Areas**
 - **World Languages**
 - **Health**
 - **Social Studies**
 - **English Language Arts**
 - **Mathematics**
 - **Science**
 - **Business**
 - **Special Education**

2017 - 2018: Beyond the Pilot:

Implementation Phase I

- Middle School 1:1 Chromebooks (Take Home)
- Elementary Chromebooks 1:1 Classrooms
- High School Chromebook Carts in Classrooms
- 1:1 Chromebooks to All Faculty and Staff
- Kidoyo Coding Platform Launched
- K-12 Library-Technology Curriculum
- Google Classroom
- BOCES Model School Staff Development

2018-2019: Beyond the Pilot:

Implementation Phase II

- **1:1 Chromebooks at High School (Take Home)**
- **Contextualized Learning and Assessment through KidOYO Coding Platform**
- **SyStem 2 Robotics Program Expansion including Lego EV3 and Drone Course**
- **Flexible Furniture**
- **Interactive Displays**
- **High School Active Learning Spaces: Library, Pilot Classroom, and Innovation Lab**
- **Elementary Libraries Transformation**
- **Professional Development - BOCES Model Schools**

Spring 2019 - Winter 2020
Technology Work Group Reboot:
Innovate, Iterate, and Amplify!

- Pilot Pioneers
- Teacher Leadership
- Girls Who Code
- Girls Talk
- Mentor Teacher Program
- KidOYO Super Group
- K-12 Curriculum Coordinators
- District LMS and Technology Staff Developers

Spring 2019-Winter 2010: Technology Workgroup Reboot: Innovate, Iterate, and Amplify!

A return to the questions:

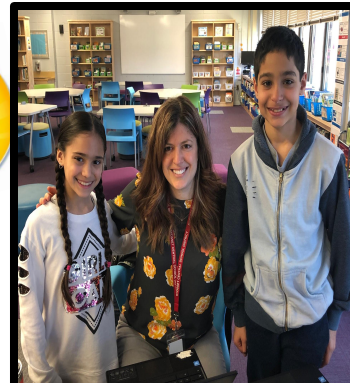
Where are we now? Where do we want to go from here?

Learning Spaces	Digital Resources	Data Privacy & Security	Creative Computing	Professional Learning
Interactive Display	Review Current Resources	Acceptable Use Policy	KidOYO Learning Pathways	Digital Resources Learning
Technology & Hardware Pilots	Assistive Technology	Secure Access	Scope & Sequence K-12	Data Privacy Learning
Instructional Rationale	Parent Bill of Rights	NYSED Ed Law 2-D Regulations	Cross-Cutting Opportunities	Professional Communities

Christine Owens Jessica Gonzales* Christine Payne*
Alexander Ras Ray Loverso
Celebrate
Kelly Fokianos*
Carisa Steinberg
Krista Hachadoorian Allison de Onís Melanie Spiegel*

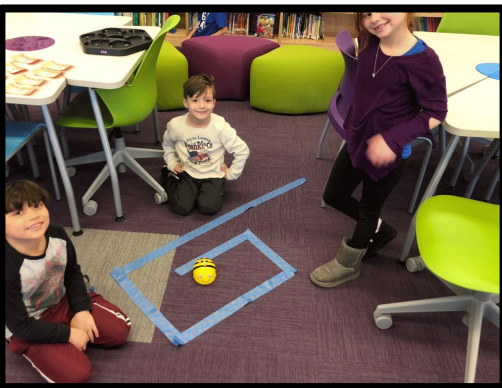
★ *Pilot Pioneers*





LEGO ROBOTS ARE OUT OF THIS WORLD

STUDENT LEADERSHIP



BEE BOTS AND MAZE CODE

TEAMWORK PROBLEM SOLVING

GIRL POWER COLLABORATION

#TEAMWORKMAKESTHEDREAMWORK

#LOVEYOURLIBRARY

#STOP.THINK.TRY.AGAIN.



#InteractiveCollaboration

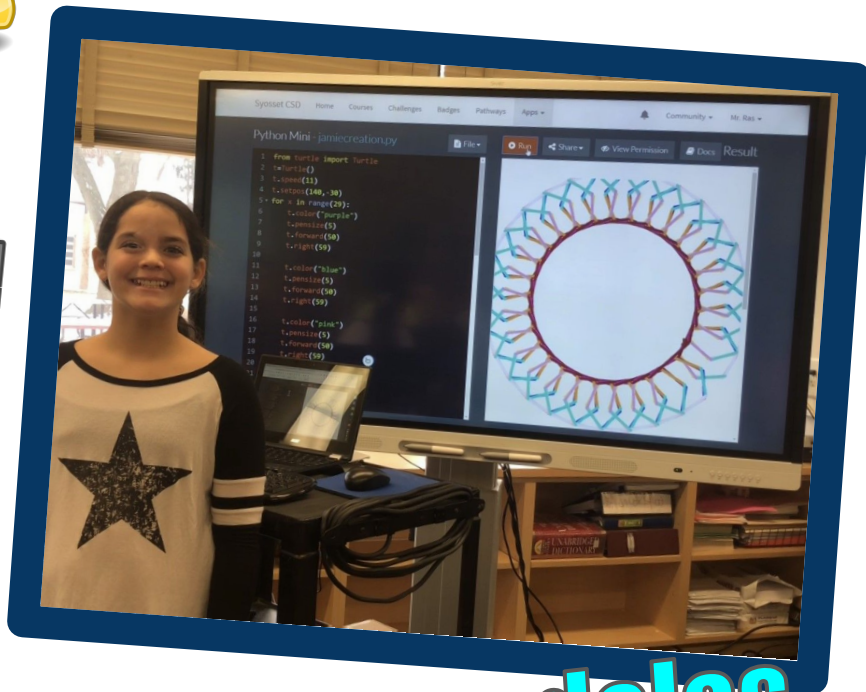
RL

Teachers & students
join minds in the
Professional Learning
Lab at Robbins Lane.

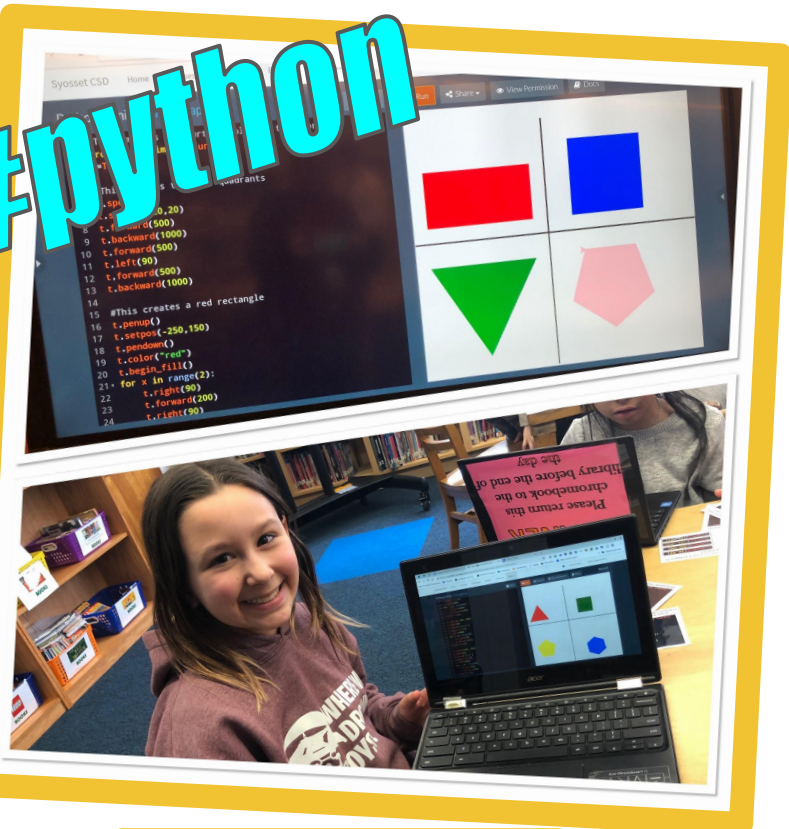


#python

#createyourfuture



#mandalas



Let's Take a Look at the Chart!

Turn & Talk: What do you notice from analyzing the chart?

Picture	Regular Polygon	# of Sides	# of angles	Sum of Interior angles (°)	Each interior angle (°)	Each exterior angle (°)
	Triangle	3	3	180°	60°	120°
	Square	4	4	360°	90°	90°
	Pentagon	5	5	540°	108°	72°
	Hexagon	6	6	720°	120°	60°
	Octagon	8	8	1080°	135°	45°

A.P. Willits Library Media Center



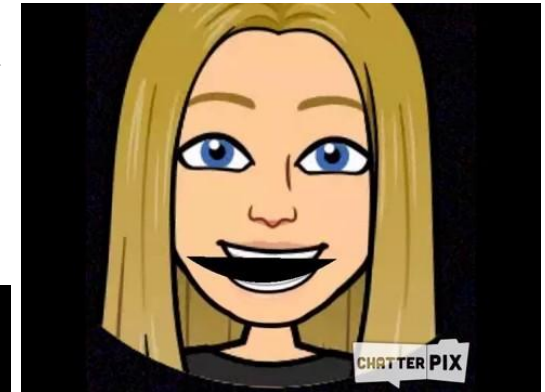


**Chatterpix +
Flipgrid =**

**App Smashing Fun
Interactive Bulletin Board**

Flipgrid

**8th grade Spanish Class
South Woods Middle School**



#hablamosespañol

South Woods Middle School





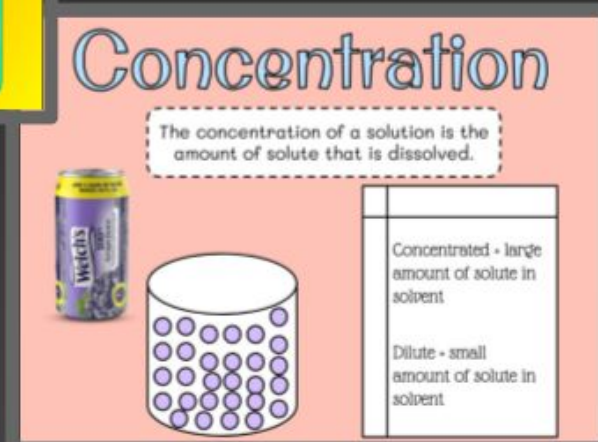
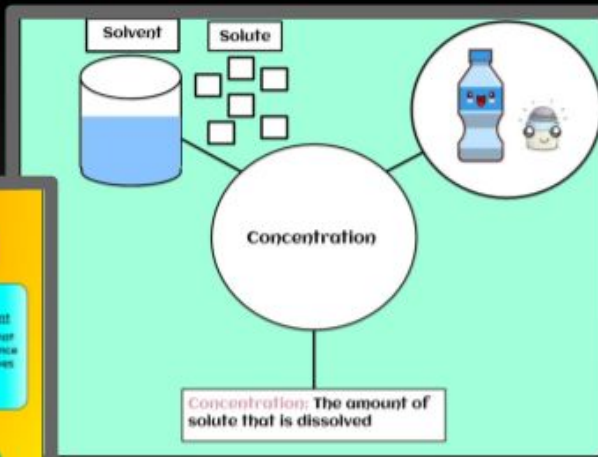
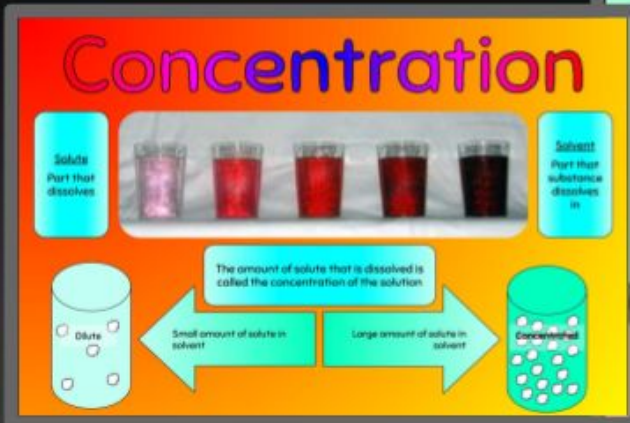
HBTV

HBTech Support



#FlexibleLearningSpaces #1:1Chromebooks #Collaboration #StudentEmpowerment #GiveStudentsAVoice

#studentvoice 



Student task:

Use google drawings to create a visual review.

Include text, images and drawings.



**HBT
Middle
School
Science**

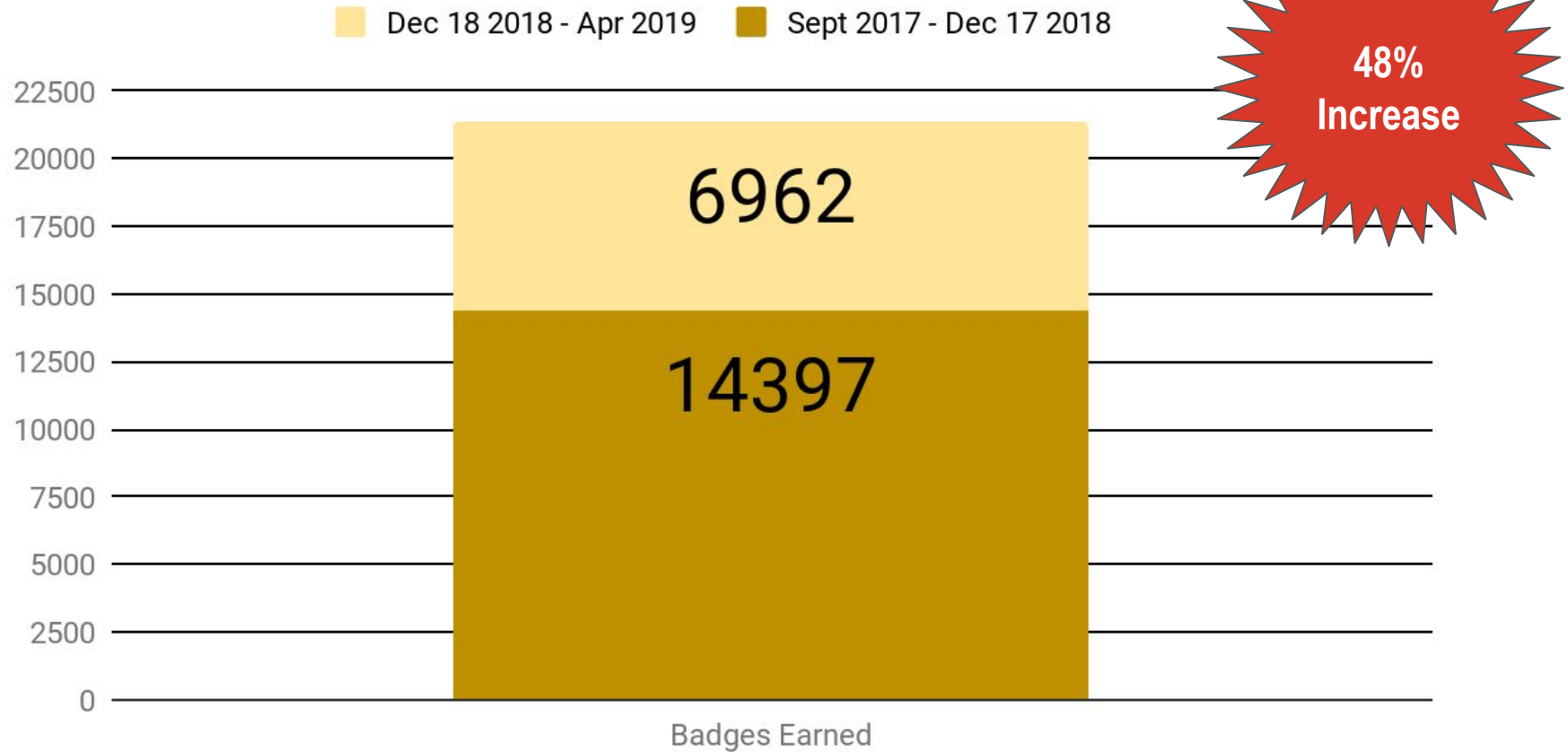
DualCodingTheory



KidOYO Coding Program Update

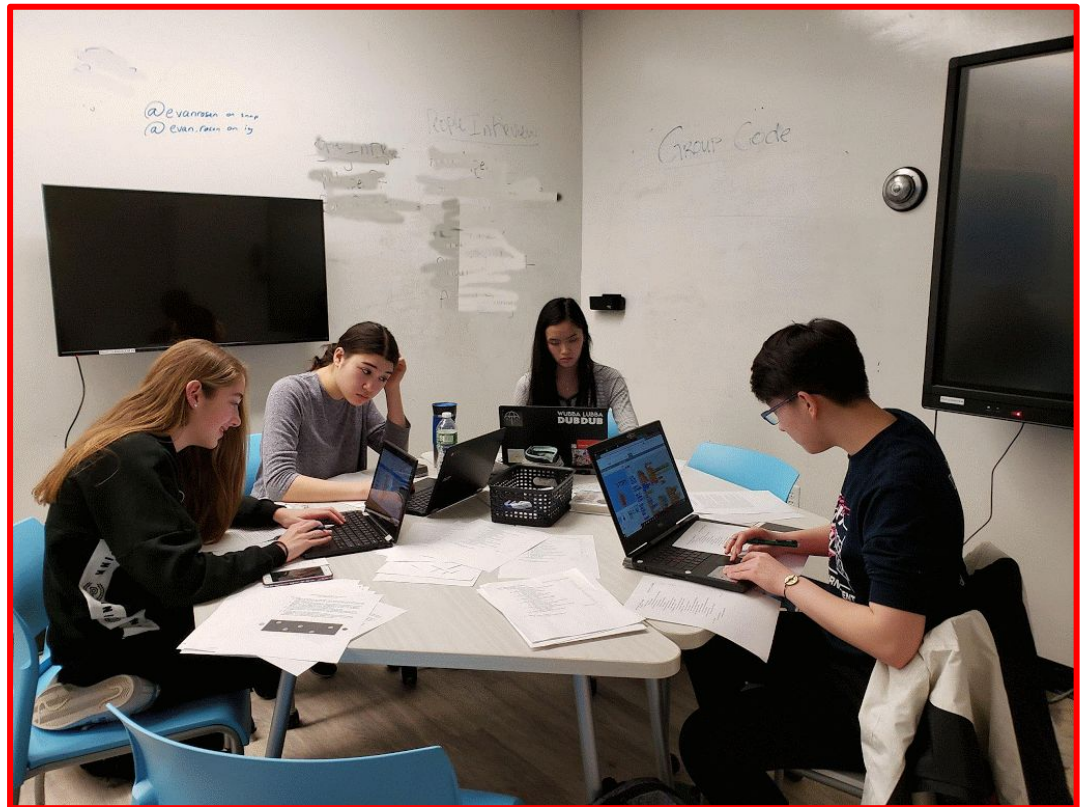
21,359 Badges To Date!

Coding Badges Earned Sep 2017 - Apr 2019



girls who code

“Girls Who Code is on a mission to close the gender gap in technology and to change the image of what a programmer looks like and does”

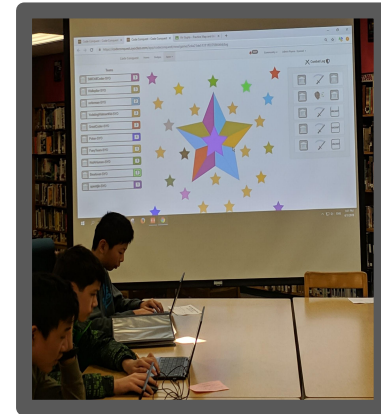




Pre-Qualifying Round



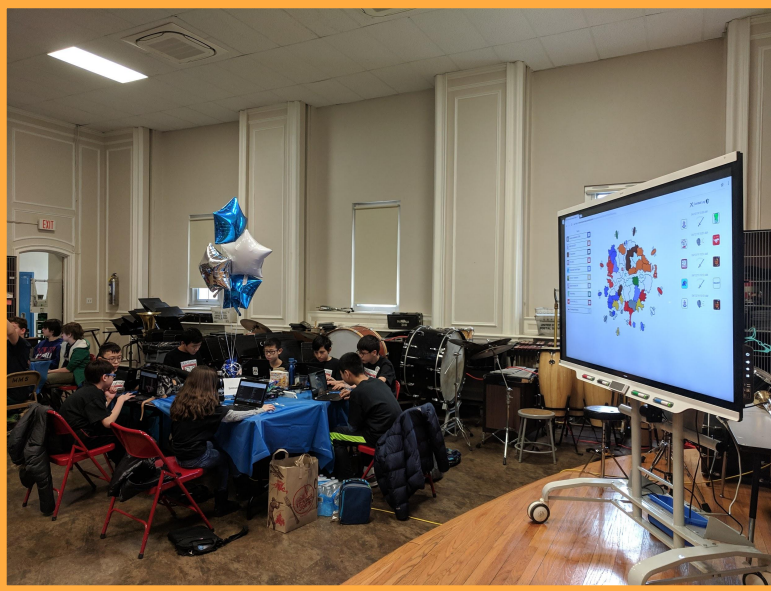
SHS Girls Who Code Challenge Creators & Judges



Strategy & Practice Map Sessions

- ★ Hatch/Scratch
- ★ Python
- ★ Sprite Editor/Animation
- ★ HTML/CSS





**Winning
the
Day**

**Coding, Competing & Capturing
Territories on the Map**

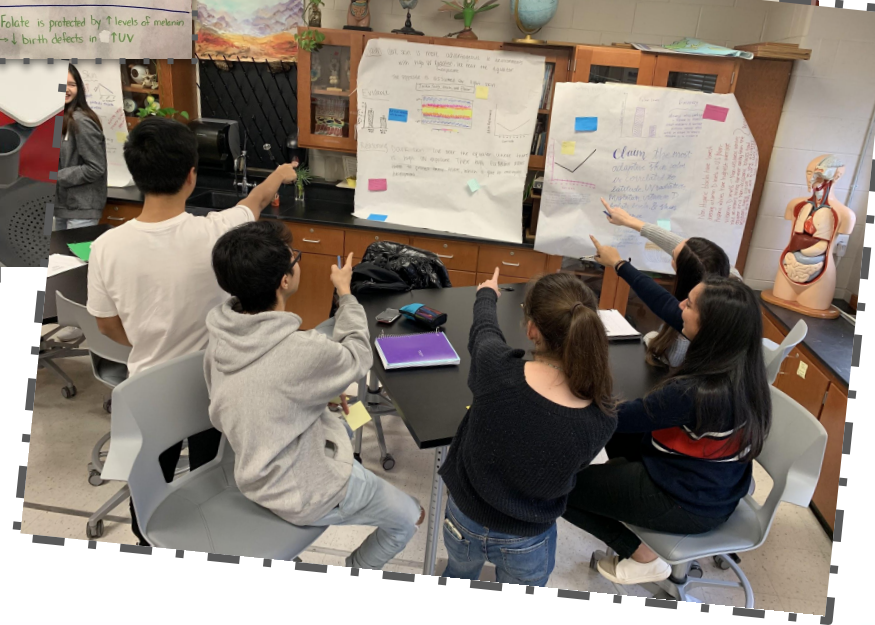
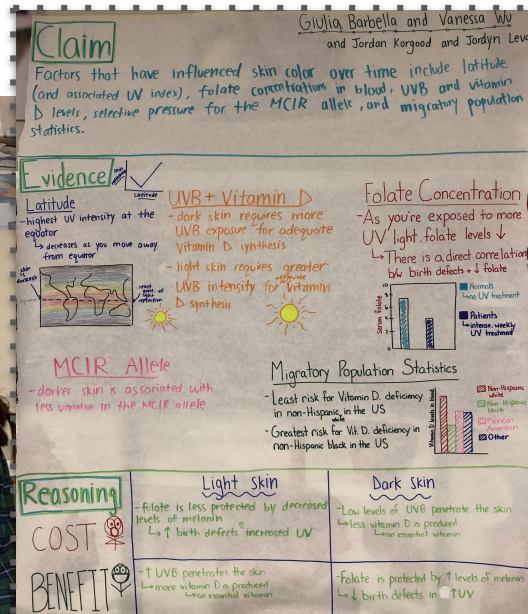


#Strategy #Skill #Grit #AlgorithmicThinking #Creativity #FunctionalKnowledge



SYOSSET HIGH SCHOOL

AP BIOLOGY



#empoweringstudents

#independentresearch

#argumentationinscience

#claim-evidence-reasoning

#apbiostudentsareamazing!



Sy-STEM 2: Drones



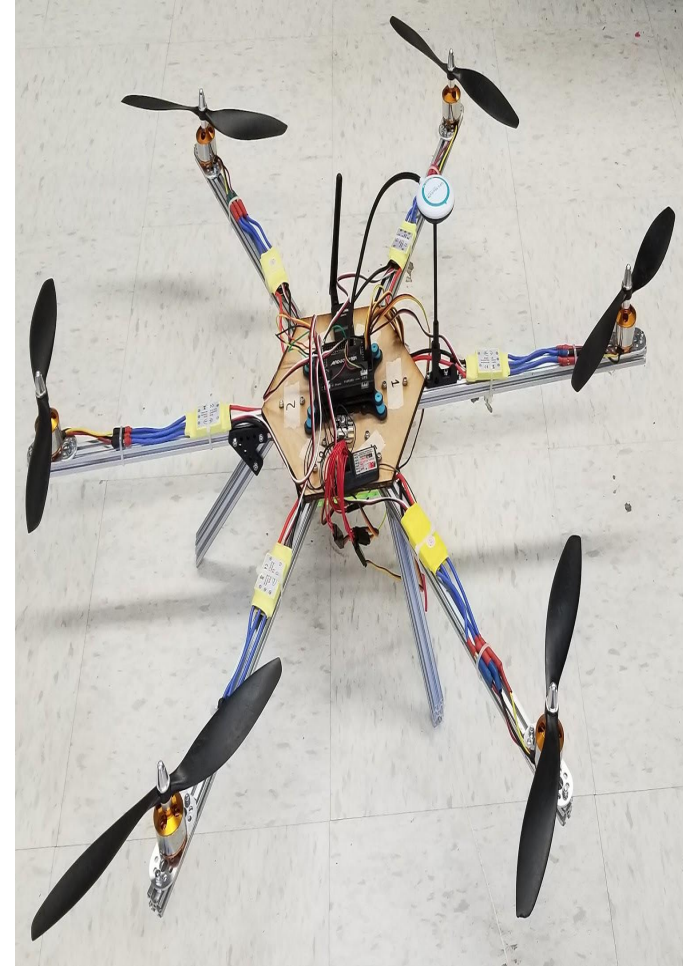
Delivery Drone



QuadCopter



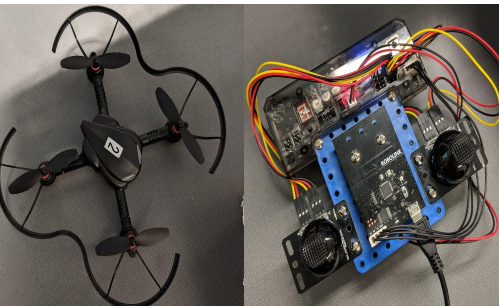
HexaCopter



OctaCopter



Mini Drone



Students Designed, Fabricated, Built, and Programmed



Thank You

Syosset Board of Education

**Established
Priority**

**Provided
Funding &
Resources**

**Innovated,
Iterated &
Amplified**

