Transformative Virtual and Physical Environments: *Enhancing Teaching and Learning*

Board of Education Presentation
December 17, 2018

Transformative Virtual and Physical Environments: *Enhancing Teaching and Learning*

Syosset Technology 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.

Transformative Virtual and Physical Environments: *Enhancing Teaching and Learning*

What is a Transformative Virtual Environment?

Teaching and Learning Technology Tools Designed to Enhance a Student's Learning Experience

- Curriculum Mapping
- Personalized Learning
- Performance Tracking
- Online Support
- Electronic Communication
- Curriculum Resources
- Creation or Modification of Curriculum Content

Transformative Virtual and Physical Environments: *Enhancing Teaching and Learning*

What is a Transformative Physical Environment?

- Flexible Learning Space
- Freedom to adapt to teaching and learning needs at any given moment
- Meets a variety of learning styles and activities including individual and small and large group
- Increases engagement and collaboration
- Fosters active teaching and learning
- Elevates the educational experience for teachers and students

Transformative Virtual Environments: *Enhancing Teaching and Learning*

KidOYO brings computer science, engineering and entrepreneurial leadership to the classroom experience.

CODE.MAKE.OWN

Summer of 2017

Professional development for teachers

2017 - 2018

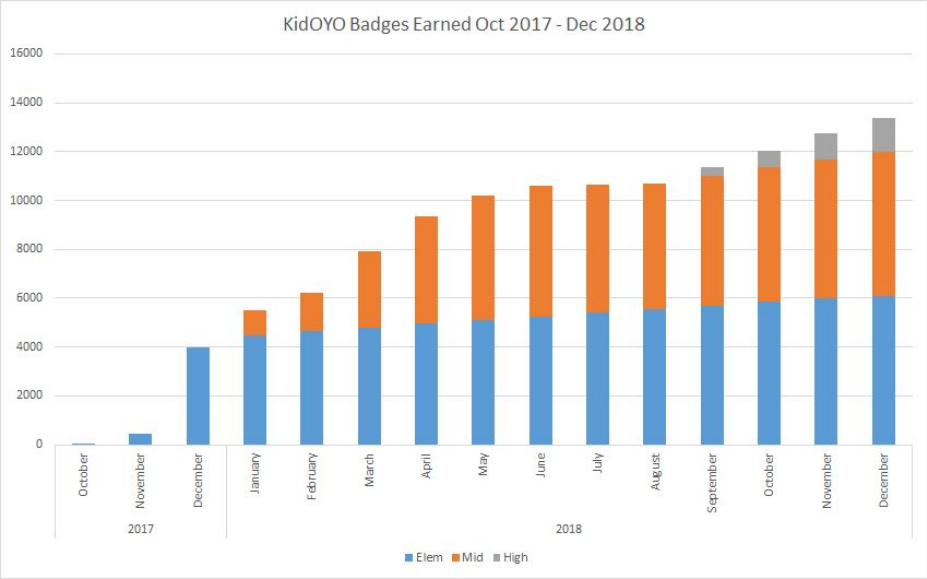
Coding Instruction:

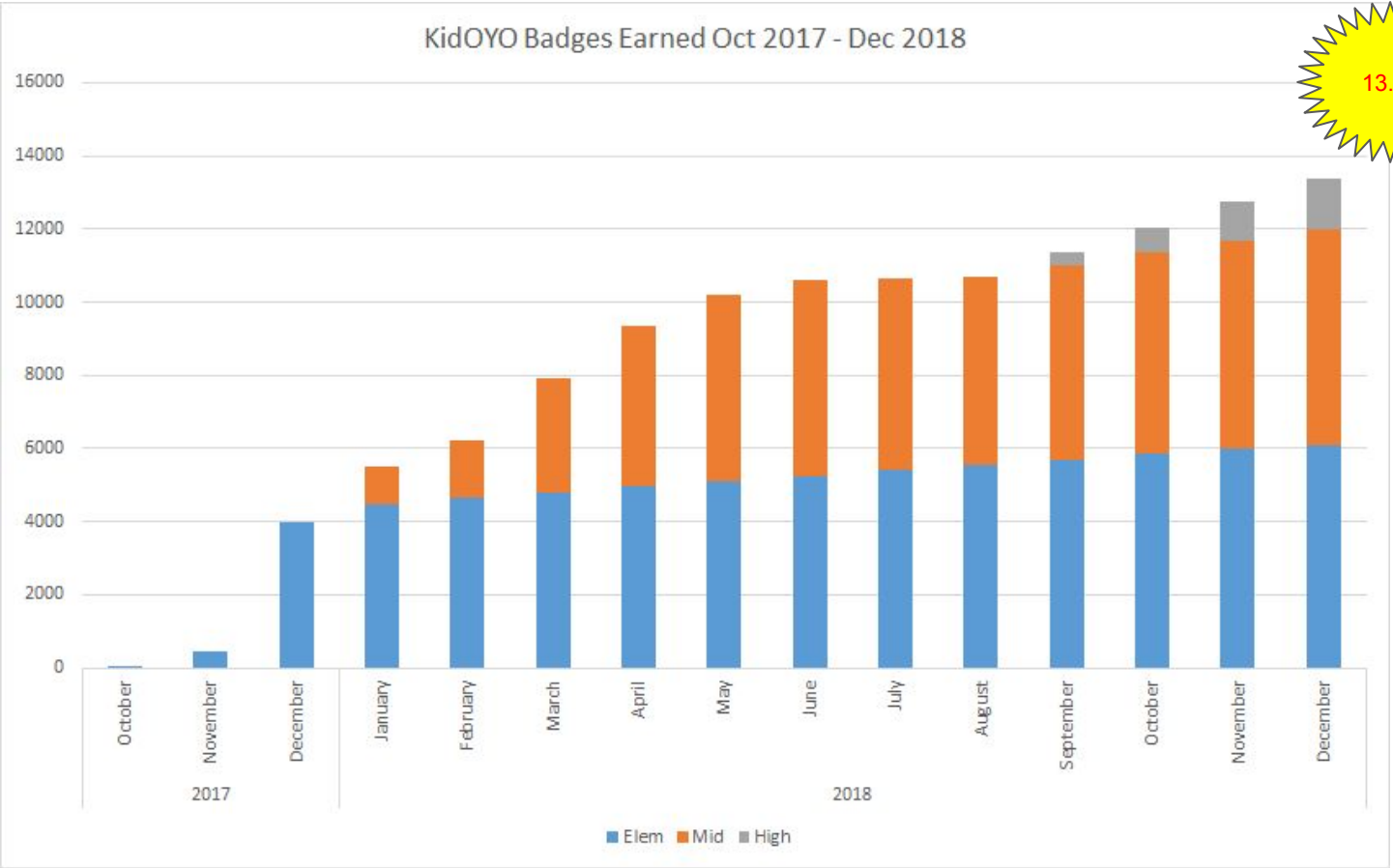
Elementary - November

Middle - December

High - May 2018

KIDOYO Model District




KidOYO Badges Earned Oct 2017 - Dec 2018
13.5k
16000
14000
12000
10000
8000
6000
4000
2000
0
October
November
December
January
February
March
April
May
June
July
August
September
October
November
December
2017
2018
Elem
Mid
High

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Professional development for teachers

2017 - 2018

Elementary - November

Middle - December

High - May 2017

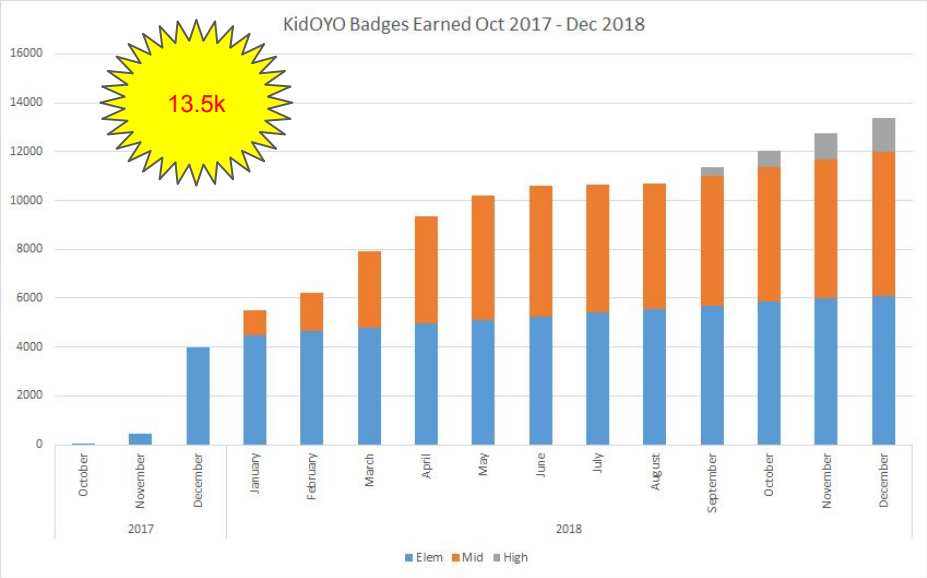
2018-2019

→collaborative multi-class projects

→more complex languages

→student mentorship

→digital portfolios



Transformative Virtual Environment: Enhancing Teaching and Learning

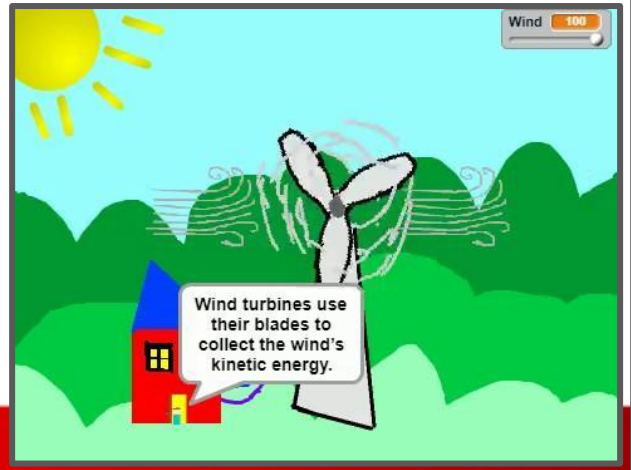
Cross Cutting-4th Grade

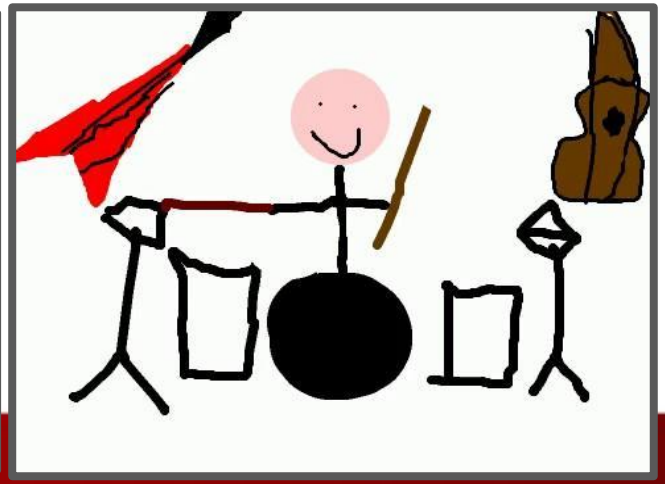
Elementary KidOYO

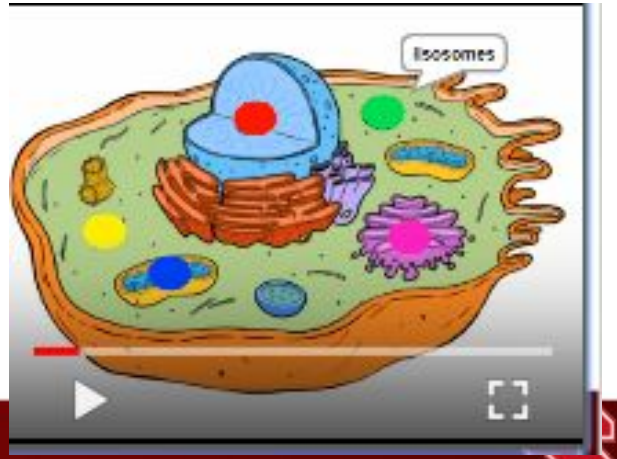
Second Year Rollout

Growth and Change from Year 1 to Year 2

Coding Languages and Cross-Cutting Projects







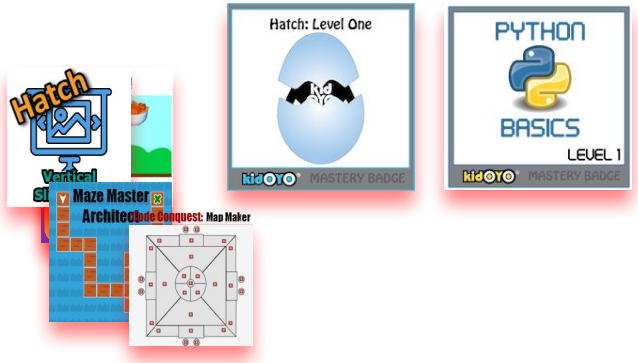
Transformative Virtual Environments: Enhancing Teaching and Learning

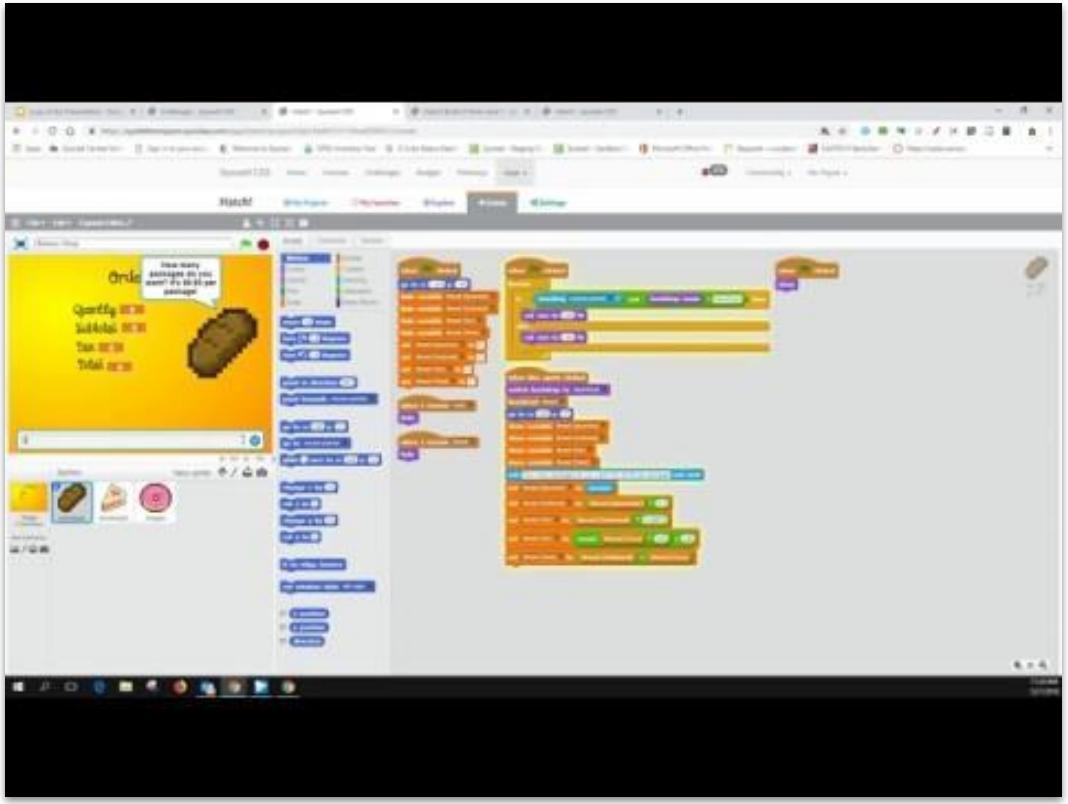
Middle School KidOYO

Challenges and Badges

Empowerment and Leadership

Mastery and Learning Pathways





Learning Pathways

Syosset CSD
Hatch! Single-level Maze
This course will go over how to make a simple single level maze using the Scratch language. This will directly lead into the Multi-Level Maze course which adds onto
Hatch! Creating a Multi-level Maze
This tutorial was designed to help you

Arduino Coding

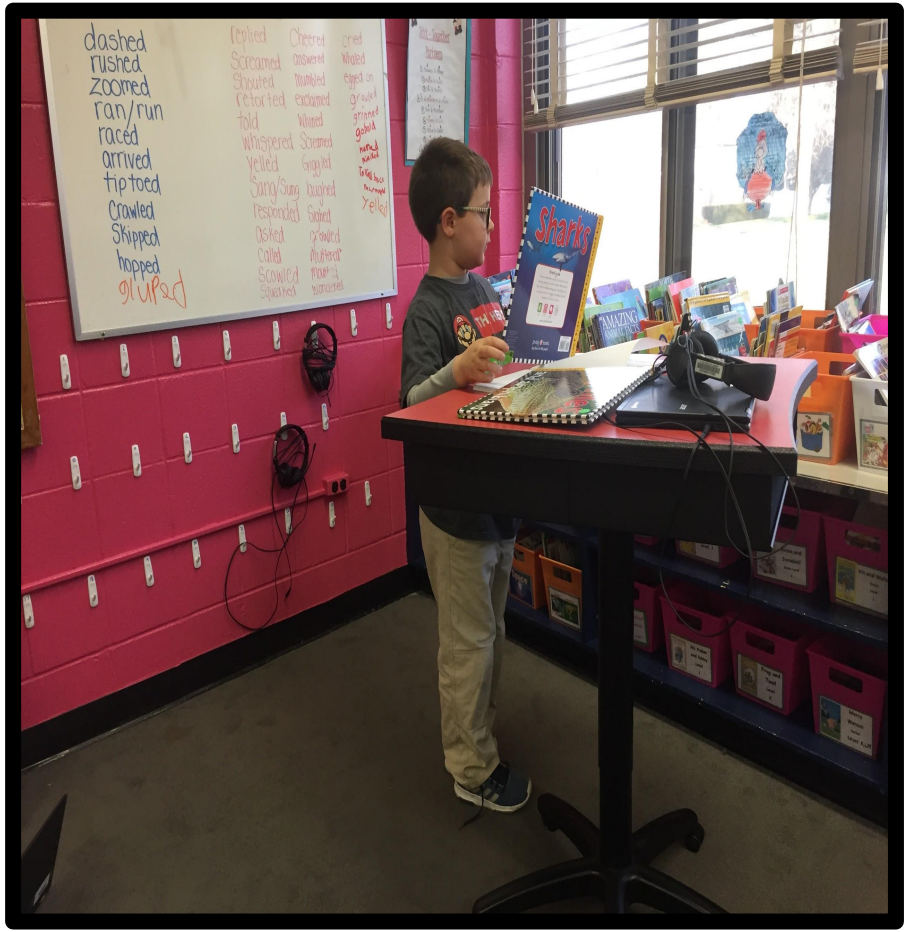
Digital Portfolio

OYOCLASS
Digital Portfolio

Transformative Physical Environment: **Flexible Furniture**

Transformative Physical Environment: **Flexible Furniture**

THE HERO
THE BRO
THE BOSS


dashed
rushed
zoomed
ran/run
raced
arrived
tip toed
Crawled
Skipped
hopped
glided
Sharks

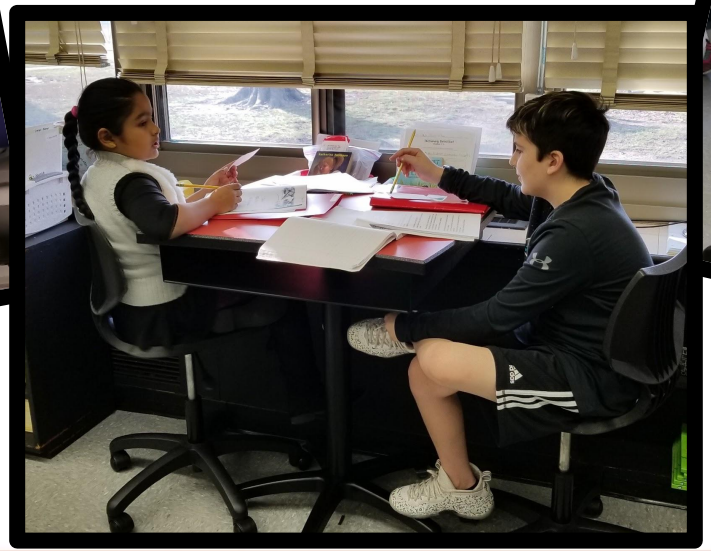
Transformative Physical Environment: **Flexible Furniture**

Quiet space to get away

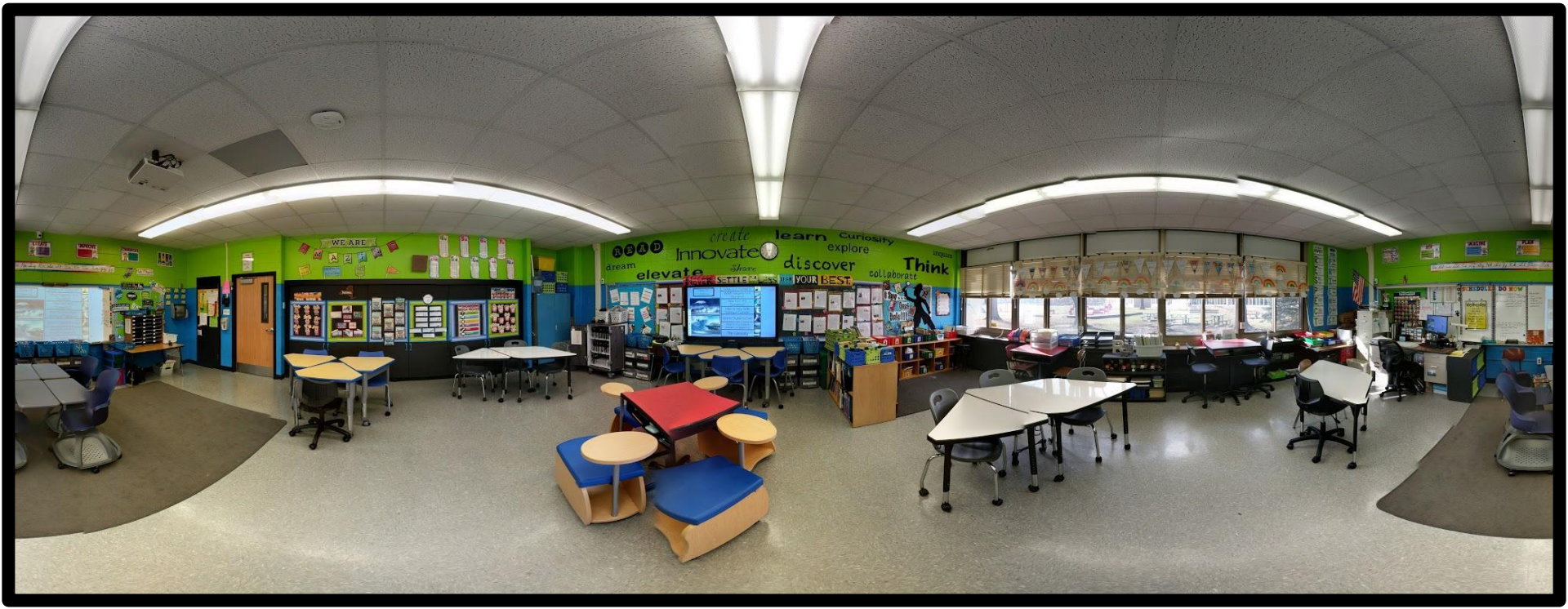
Google

P.R.I.D.E.
A.P. WILLITS
SYOSSET, NY

Transformative Physical Environment: **Flexible Furniture**



Transformative Physical Environment: **Flexible Furniture**



Transformative Physical Environment: **Flexible Furniture**

Transformative Physical Environment: **SHS Pilot Classroom**

Sarah Wasser
&
Lynn Ortlieb

Our Road Ahead…