

Alisha Wilson



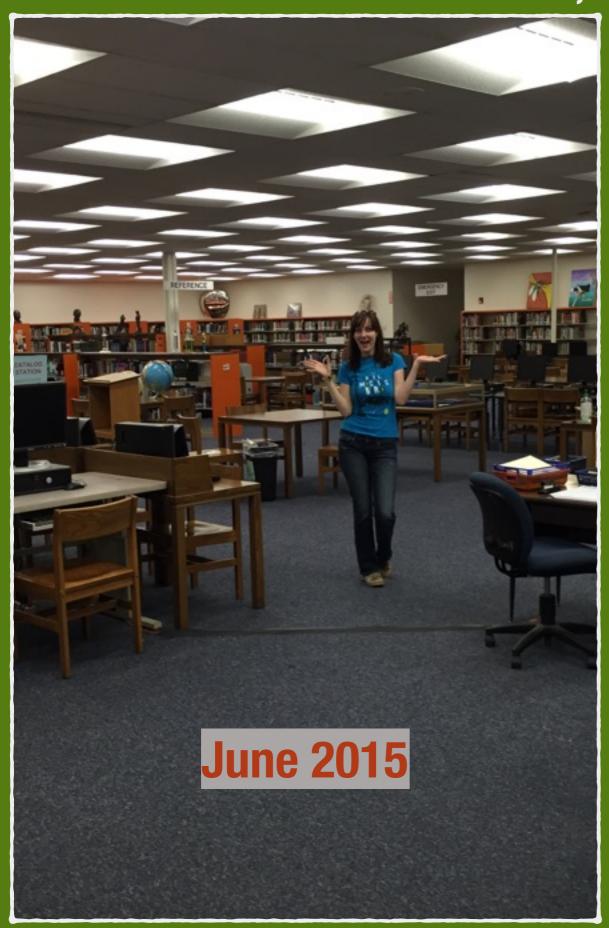
Teacher-Librarian
Booker T. Washington High School Innovation Center
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"But Mrs. Wilson, Librarians are so LAME!"









If you <u>make space</u> for them and if you make the space <u>for them</u>, they will come!

Before 9,000 Student Visits After Year 1 23,833 Student Visits After Year 2 30,130 Student Visits

It all started with a Spark!



What is the purpose of this space?

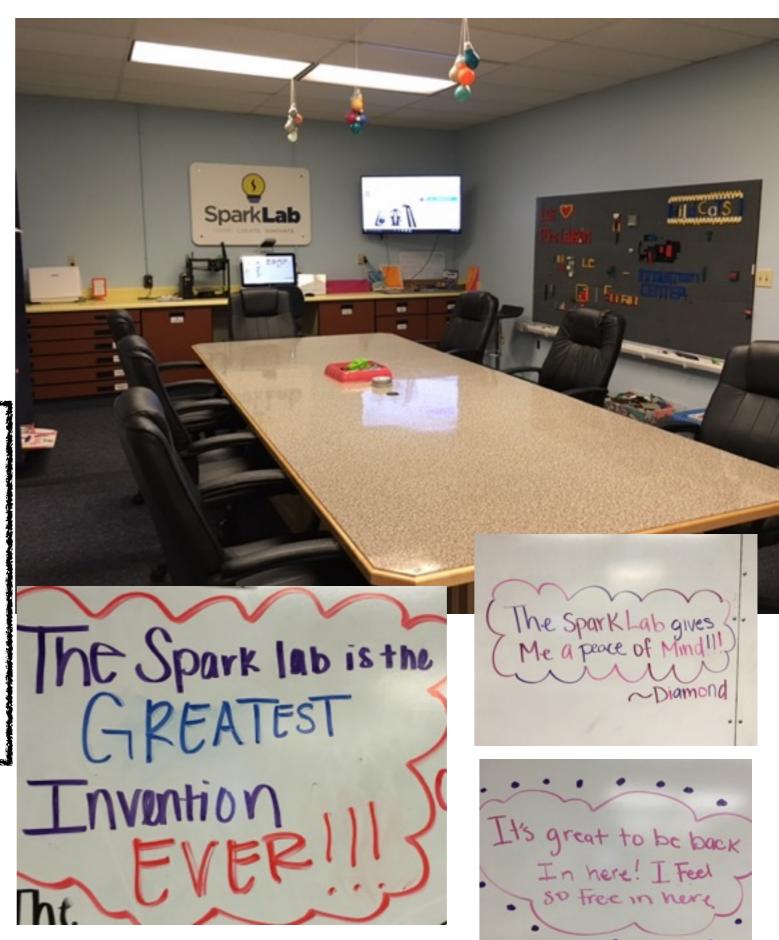
Could it serve a better purpose?



What is a Spark Lab?

A place for students to...

- Work creatively on school assignments
- Pursue personal projects and interests



Collection Tips

Put out a wish list on Facebook

Send home a flyer to parents

Contact PTSA

Collect the random stuff!





What's in our Spark Lab?



1. Sort an

Tips

- 1. Sort and label everything!
- 2. Group random items by shape "Round things" or by type "spare parts" or "toys"

Sphero

Bloxels

BB8

Ollie

BB8

Ozobots

Cubelets

iPads

HP Sprout

Littlebits

Makey Makey



Technology in the Spark Lab

Lulzbot 3D Printer

Silhouette Cameo

Hummingbird Robotics

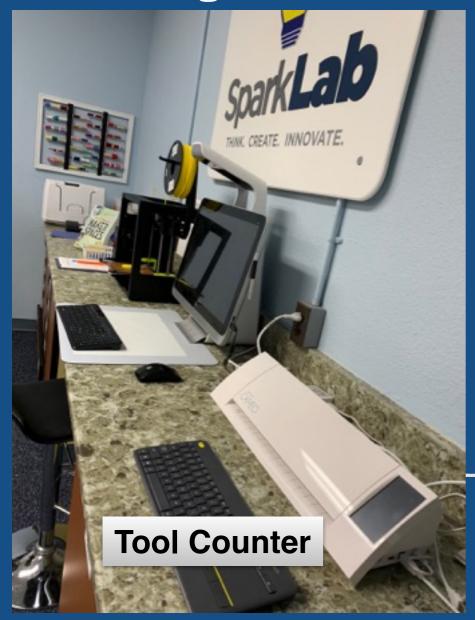
Snap Circuits

Necomimi Headgear

Virtual Reality Sets (cheap ones from Amazon under \$50)

Snap Circuits

Other Designated Stations



Sewing Machine

3D Printer (Lulzbot Mini) Silhouette Cameo HP Sprout

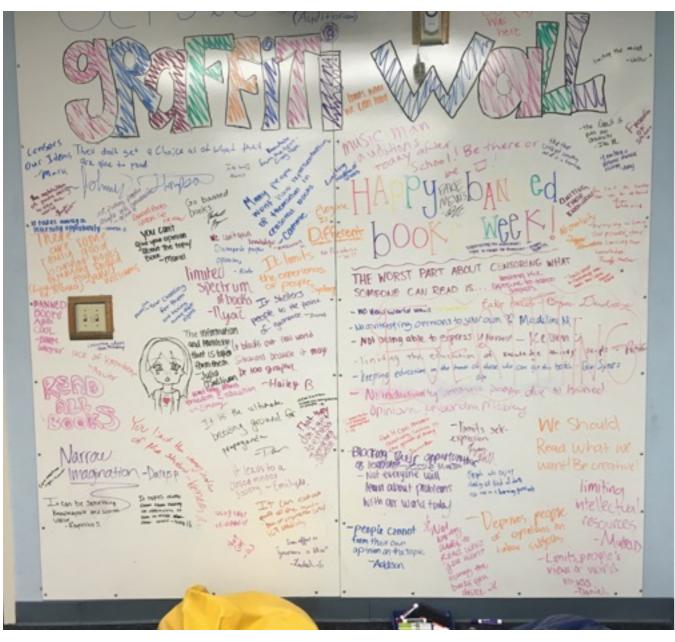
PLAN Grant













Creative Outlets

Graffiti Wall

Made with two Smooth White Hardboard Wall Panels from Lowe's

Creative Outlets





Challenge cards on Pinterest

Base Plates and compatible legos from Dream Builder Toy

Build something with one hand.

Build an animal.









Central Feature Space

Used for the following:

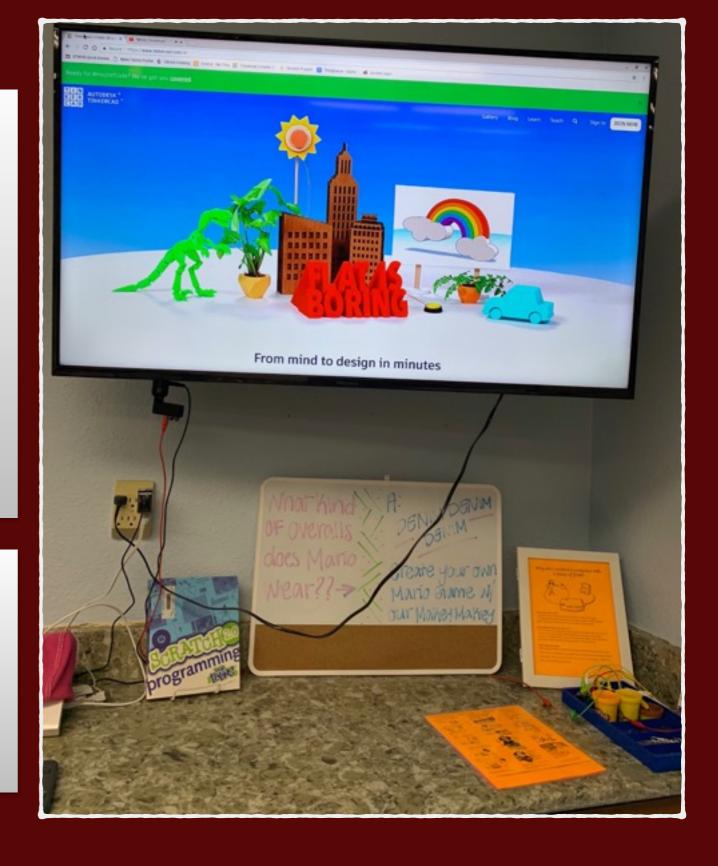
- Coding Station with Scratch and Makey Makey
- 3D Design sites like Thingiverse and Tinkercad
- Group Planning and Creating
- Presentation Practice
- Advertising challenges or new products

Create this space using a...

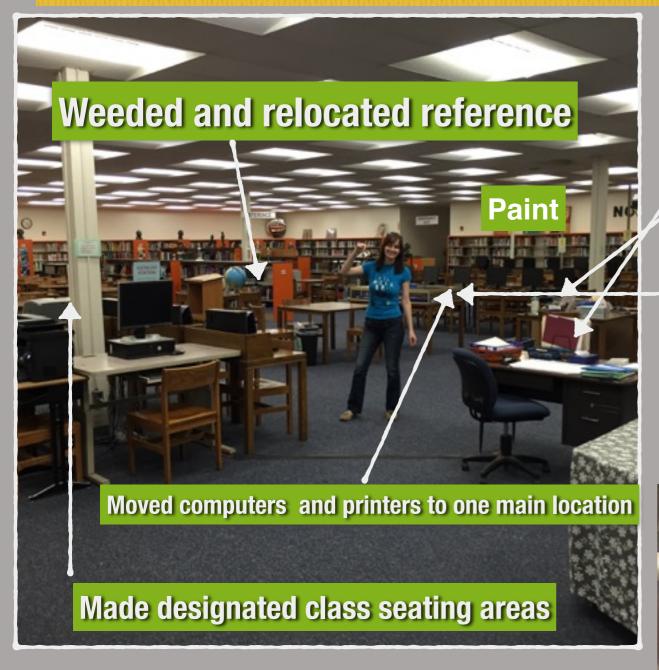
*Standard TV and mount

*Chromebit or Intel Compute Stick to
convert the TV into a computer

*Wireless Keyboard



Create Open Space



THE SPARK BECAME A
FLAME

Relocated the...
Librarian's Desk
Hand Sanitizer/Tissue Table
Empty Filing Cabinets
Outdated Display Cases
Globe
5 dictionary shelves



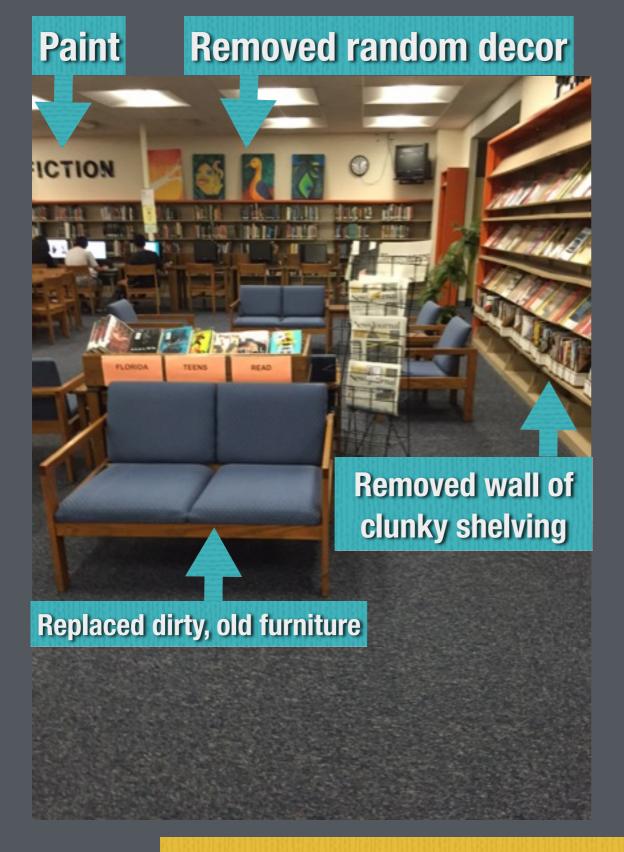


CIRCULATION

Create DEFINED Spaces

- 1. What is my purpose for this area?
- 2. How can this space best be used?

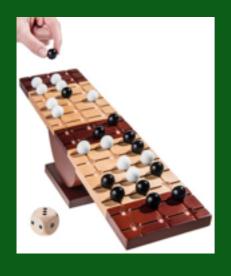






Ask students what they like and dislike about the space.







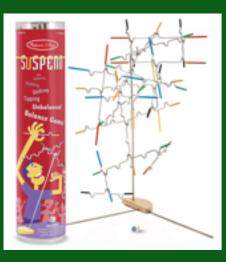


Gravity Maze



NIM Challenge



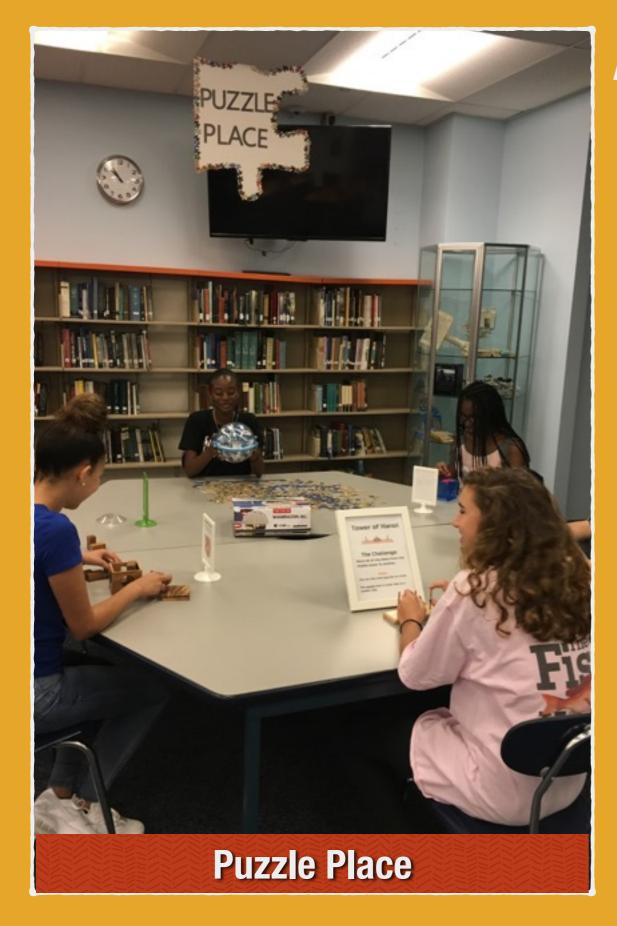


Polydron Platonic Set









Adam's Cube



Soma Cube



Perplexus Epic



Aristotle's Puzzle



Tower of Hanoi



3D Puzzles





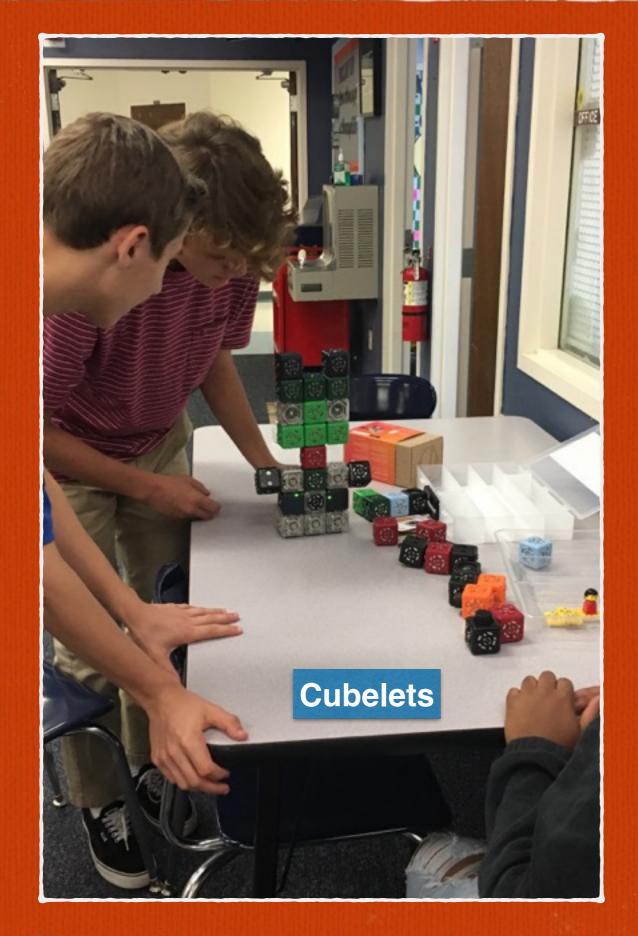




Keva Contraptions Set

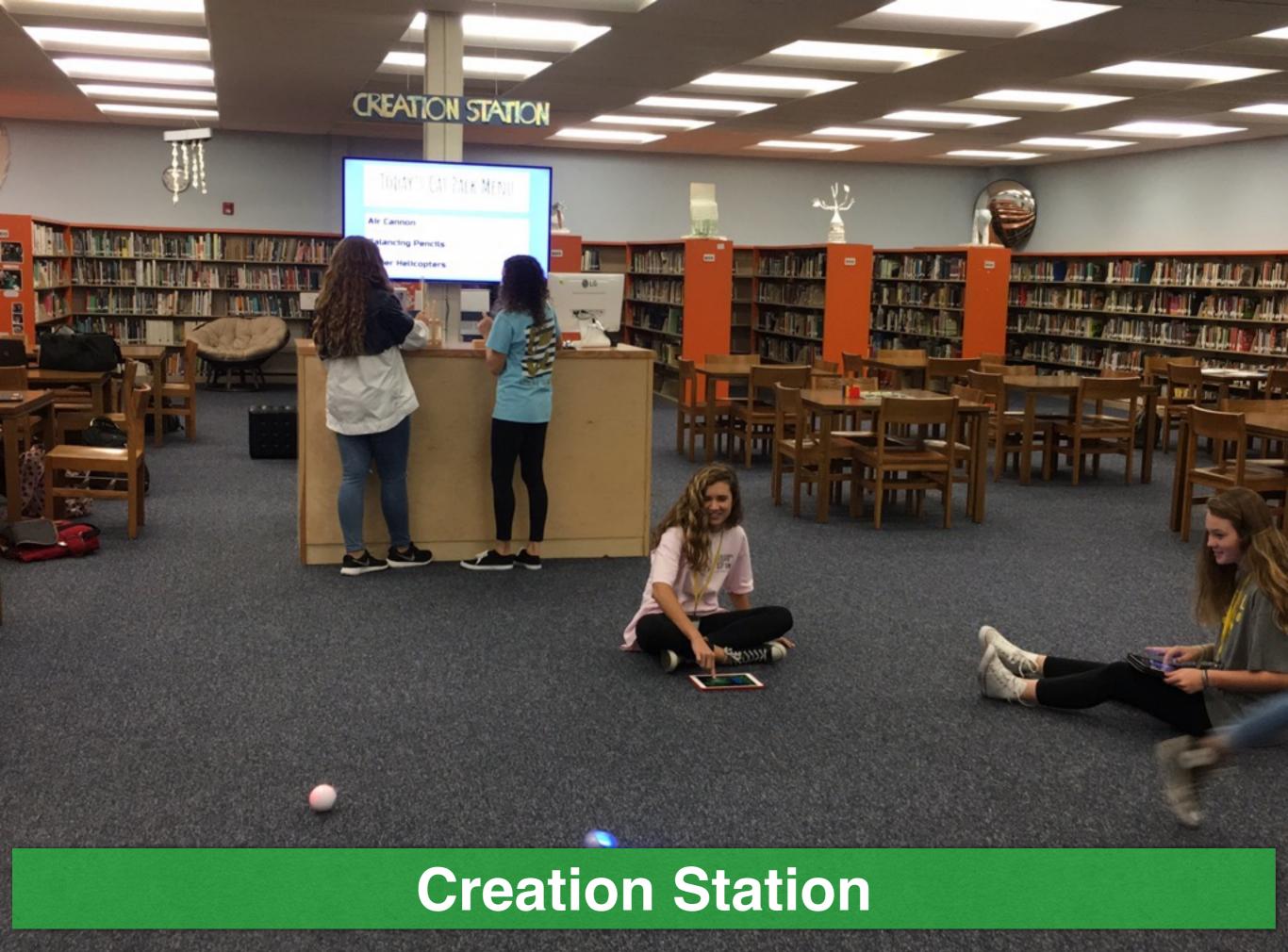


http://www.kevaplanks.com/lesson-plans-challenges-games-activities/









Cat Packs

What are they?

- Rotating Kits for student checkout
- Illustrate a science principle
- Students meet a challenge and keep the item they make.







Resources for making "Mess Kits"

www.pensacolamesshall.org

www.howtosmile.org

www.exploratorium.edu/ explore/activities

Explore Activities



Head Harp

Wrap a string around your head and pluck it to play music.



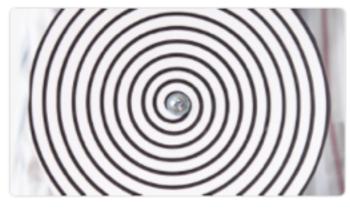
Inverted Bottles

Watch the rise and fall of hot and cold fluids.



Glow Up

Different kinds of light can be used to study life.



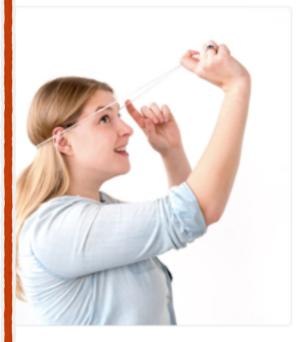
Depth Spinner

What happens when you get off the merry-goround?

What's Going On?

In this activity, you can actually hear how a string's frequency of vibration depends on its tension and length. When you pull the string tighter, you increase the tension in the string, so the pitch of the sound you hear increases. When you keep the tension constant and decrease the length of the string, the pitch also increases.

You're hearing the resonant frequencies of the string. The frequency is inversely proportional to the length of the string, and proportional to the square root of the tension in the string. The different pitches you hear are produced by the different frequencies of the vibrating string. High-pitched sounds are produced by higher frequency vibrations, and low-pitched sounds are produced by lower



Head Harp

Learn a little string theory.

Wrap a string around your head and pluck it to









Subjects:

Biology

Anatomy & Physiology

Listening & Hearing

Physics

Sound

Keywords:

vibration instrument sound string

Related Snacks



Secret Bells

Use a coat hanger and string to produce musical sounds that only you can hear.

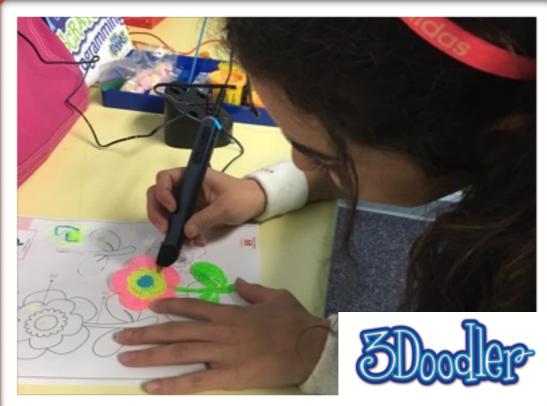
www.exploratorium.edu/explore/activities

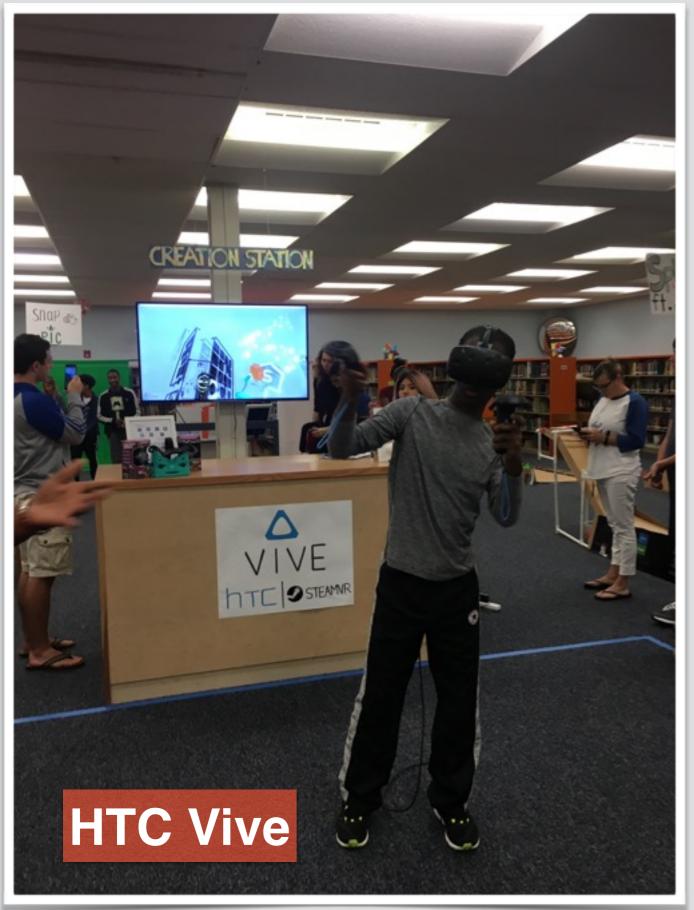


World's Smallest Camera Drone







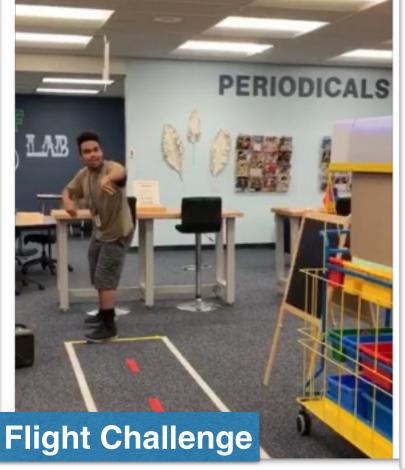


HTC Vive

- Assistant runs it.
- Students must sign an initial contract.
- Set time limits.
- Walk-in and Reservation procedures

Good Starting Experiences

- Journey into a Cell
- The Blu
- Fantastic Contraptions
- Job Simulator
- Tilt Brush
- Keep Talking and Nobody Explodes

















Rotation, Rotation, Rotation



- □ Rotate the technology or items on display
- Rotate the Challenges (weekly or monthly)
- □ Rotate "Cat Packs" or maybe a make and take craft (seasonal)

Goal: To keep students excited for what they will experience in the space

From
Library
Assistants to
Lead
Innovators

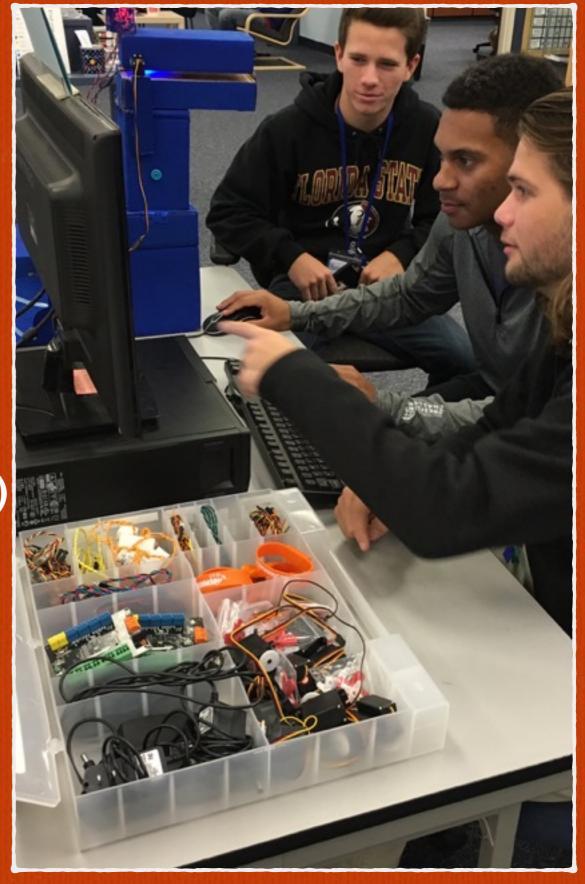
Certified in technology (Earn Charms)

Demo Technology

Create and Kick Off Challenges

Train fellow students

Assist with purchasing decisions







, Washington High partn

will be held at 9 a.m.

Washington High's o mark the start of a n the school and the t Florida's Writing

artnerships, this one people with similar inding ways provide uping writers, start to it. This is what hap Hixon, UWF's Writad Virkeisha Palmer. School District hights teacher on special pether last summer to the Workshop for the

ty high schools had a urs," Palmer said. onded Hixon. "If the the resources, then I



Booker T. Washington High and the University of West Florida have partnered to offer a UWF Writing Lab in the school's Innovation Center. From left to right are Rus Pheips, UWF Writing Lab labbie; Mamie Webb Dixon, manager of UWF's Writing Lab; and, Alisha Wilson, Washington High's Innovation Center specialist.



Events on Rotation

National Day on Writing-October 20

Global Cardboard
Challenge-October (usually)

Coding for a Cookie-

December 4-10 Computer Science Week

Black Culture Festival-

Black History Month, February

Shakespeare Festival-

March

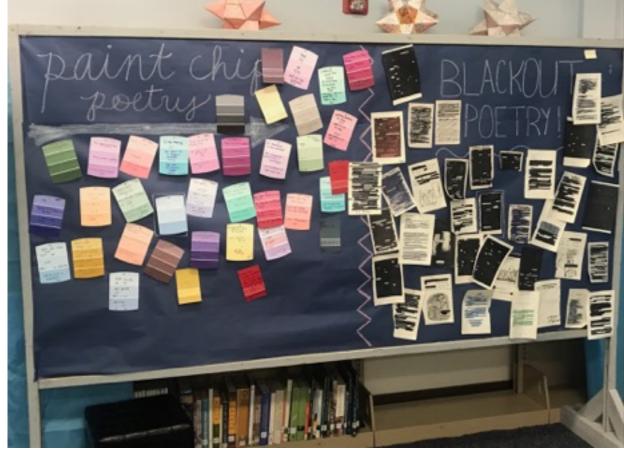
Library Showcase-

National Library Month in April

Gaining Student and Teacher Buy-in

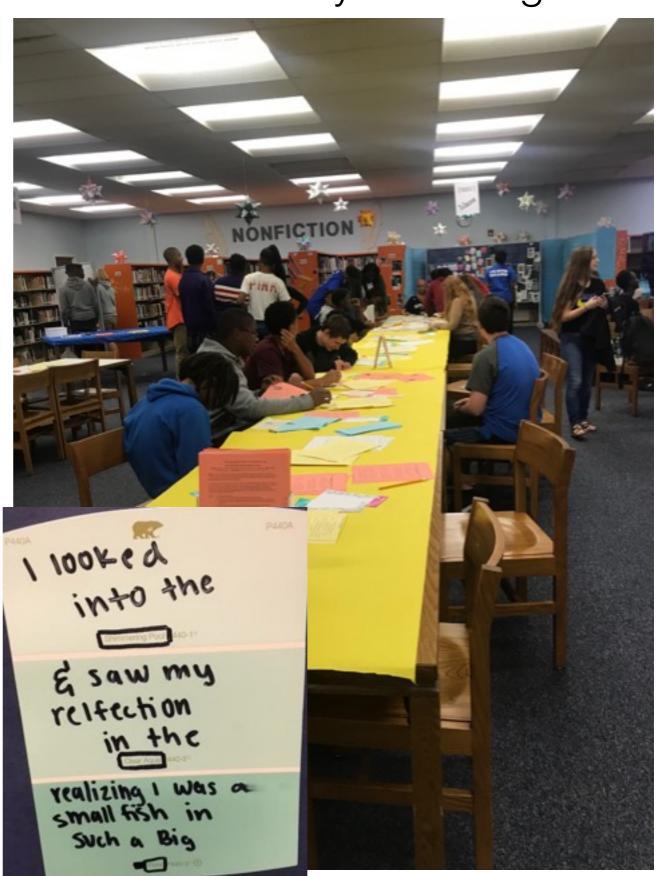






#whyiwrite Event

National Day of Writing







#tolove #tolearn

#toentertain #toexpress #todiscover

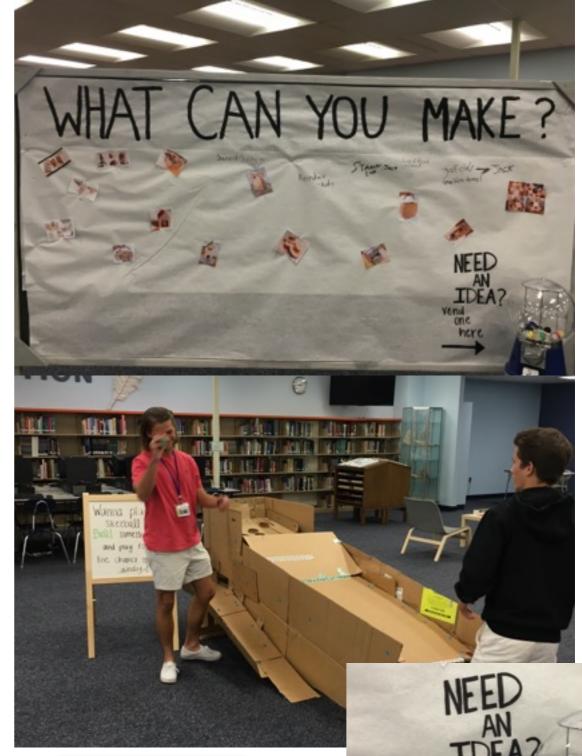
#tothank #toshare #tolaugh

Global Cardboard Challenge

Week Long Event

- Sort materials by shape and texture
- Signs for projects in progress
- Signature board (What are you making?)
- Vend an idea
- Incentive (Skeeball game)
- Place to display projects
- Stock up on masking tape, cardboard cutters, make screws





Must Watch

Caine's Arcade

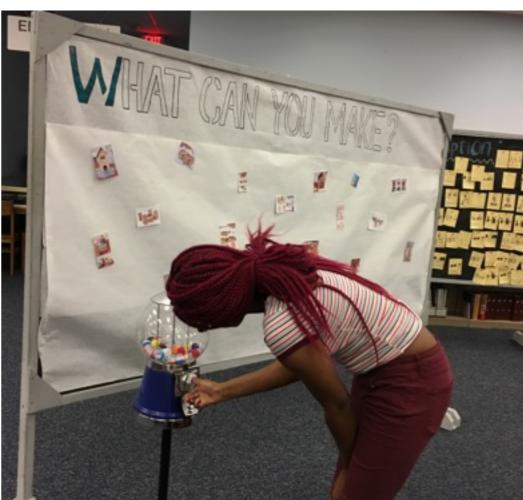






Global Cardboard Challenge





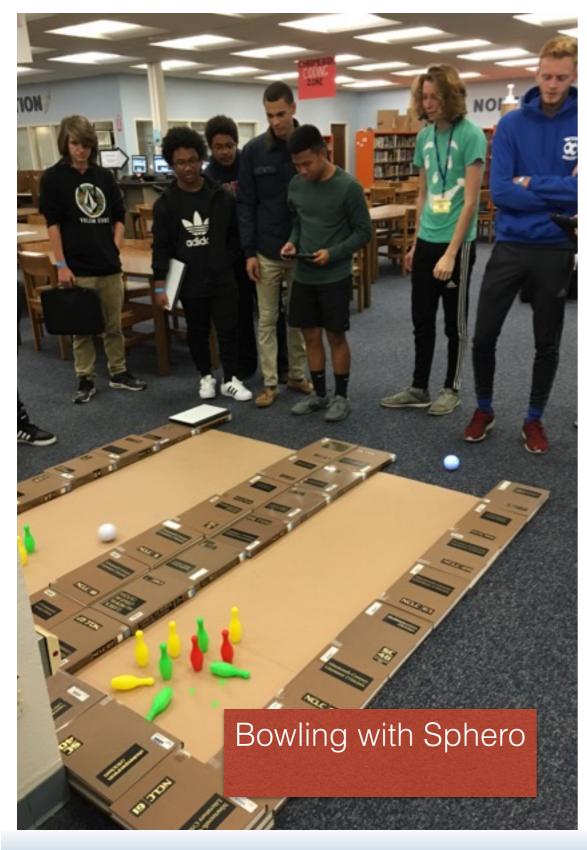


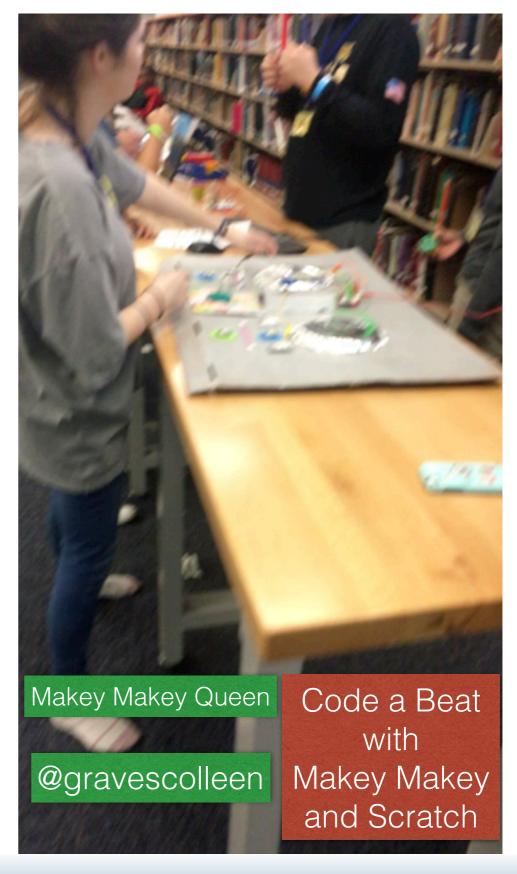


Global Cardboard Challenge

International Event Hour of Code

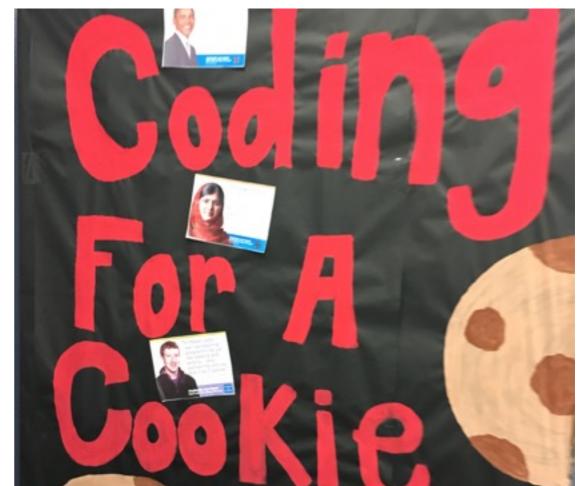
www.code.org





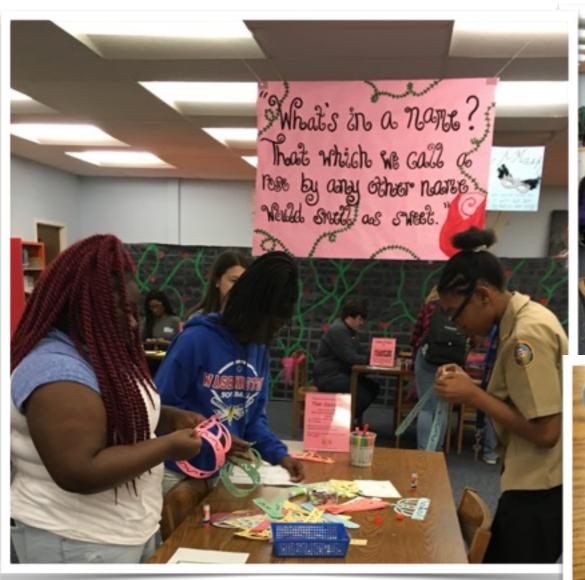
Coding for a Cookie







Coding for a Cookie



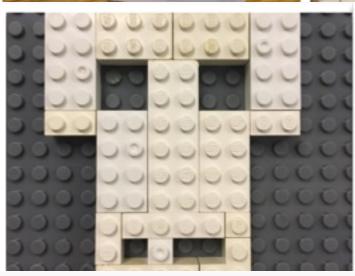














Shake Fest









Details are on the blog below:

https://medium.com/@alishawilson

Shake Fest

Black Culture Fest



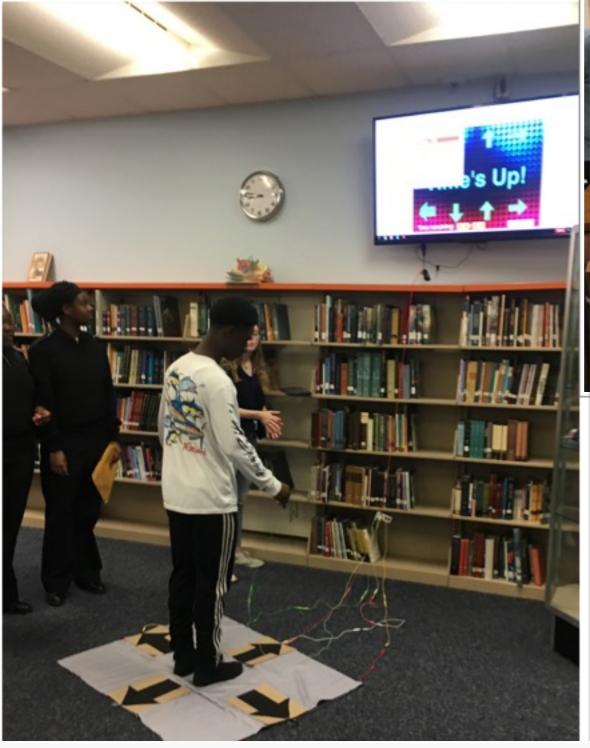
Kente Strips

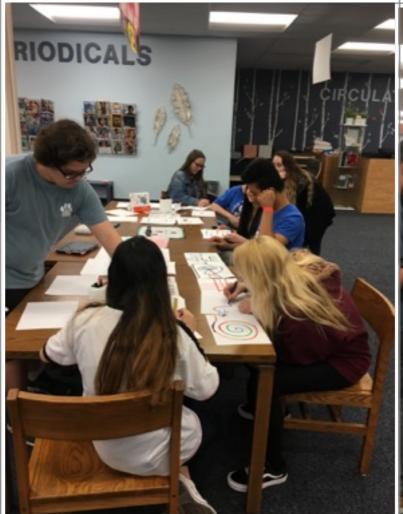




Library Showcase

30+ Stations





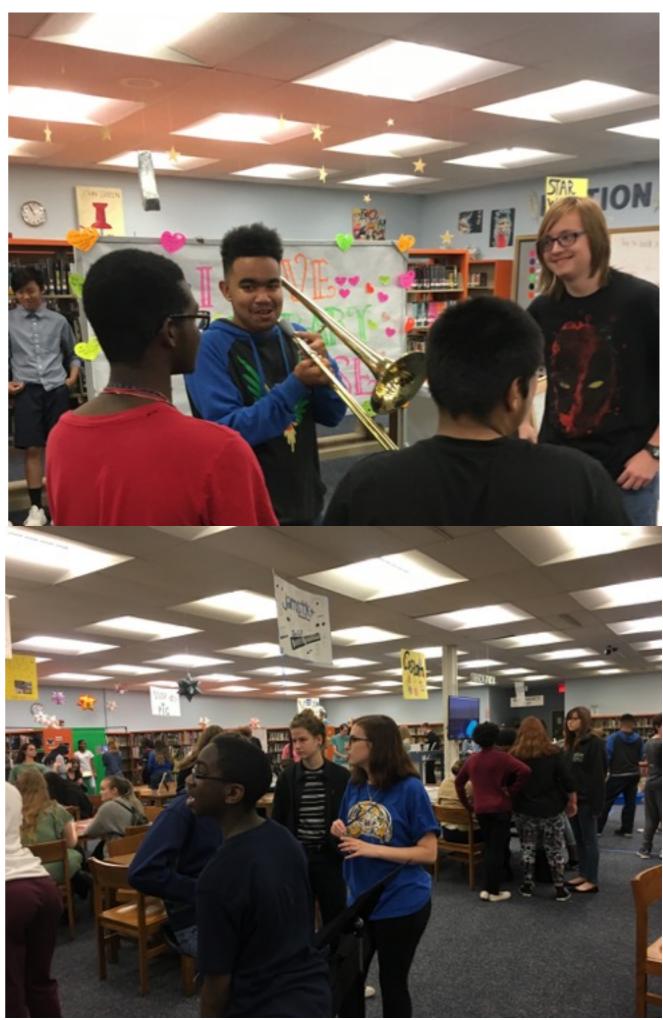




- Use and repurpose what you have.
- Put the students in charge.

Library Showcase

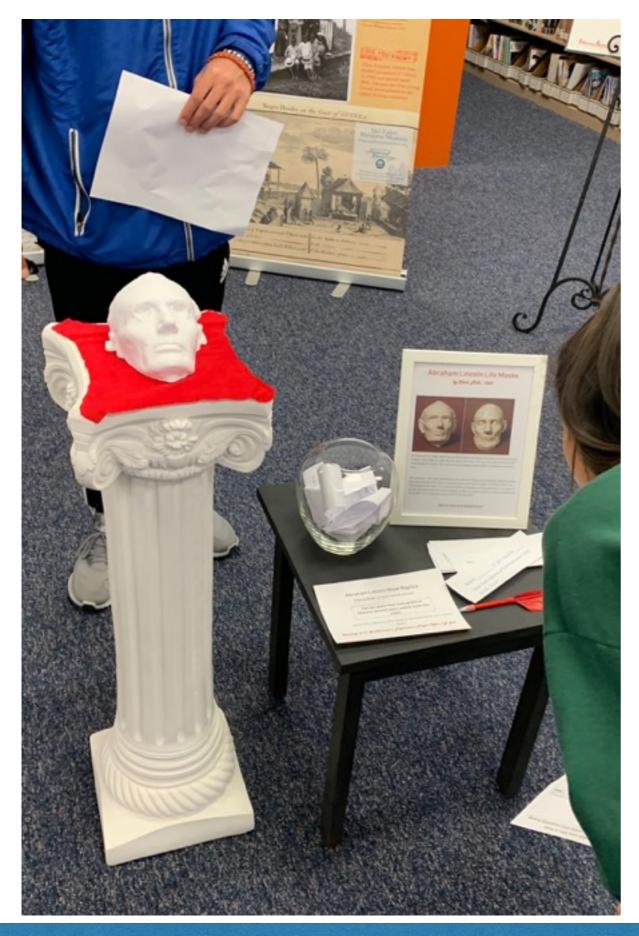




Civil War Pop-Up Museum



Panels on Ioan from Mel Fisher Maritime Museum



CIVIL WAR SILHOUETTES HEREII

Civil War Silhouettes



Free Smithsonian files for many artifacts





Tips

Start with your comfort zone.

Don't stay in your comfort zone.

Look for community resources for inspiration and guidance.

Self-guided activities are a great way to test the waters

Hosting themed events and experiences...

Creates enthusiasm with students and teachers

Helps gain student and teacher buy-in

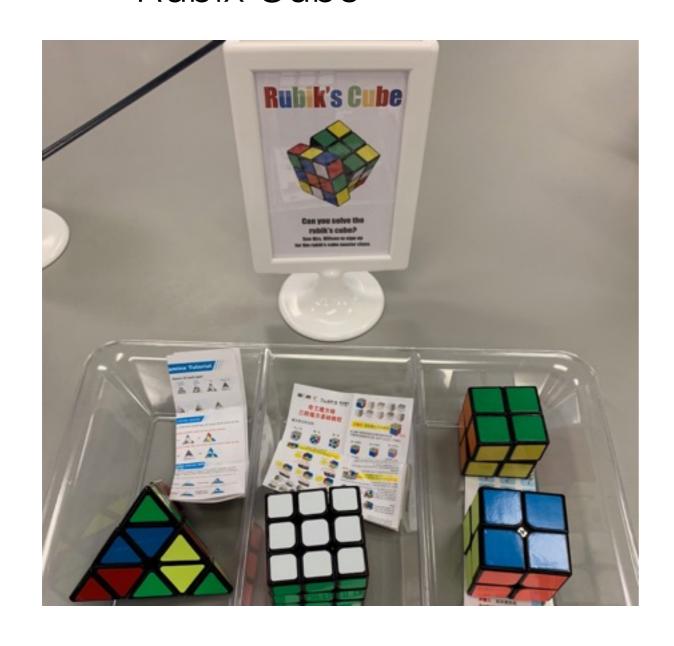
Promotes collaboration

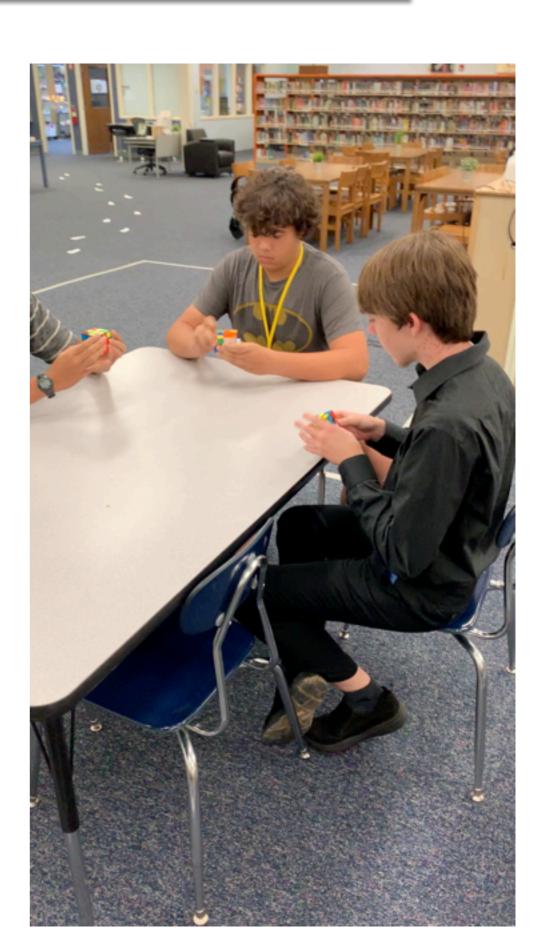


Workshops and Master Classes

Use your kids' strengths!

Scrunchie Making Crocheting Rubix Cube





Legacy Project







Find out what your students want to learn and make it happen!

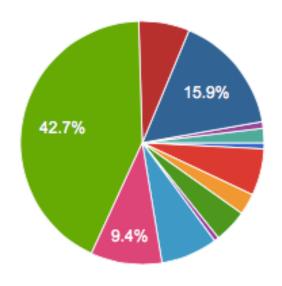


Google Form Results

42.7% Selected "Spark Lab/New Technology" as the purpose for their visit.

Purpose for Your Visit

30,130 responses











After Year 1

Book Circulation increased by over 2,000 Checkouts and continues to grow. Florida Teens Read Program participation quintupled in the first year!

Alisha Wilson





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