Using Self-Directed Learning Pathways During Library Enrichment Block
Question:

How can Media and AIG Support Staff be used during school wide intervention block?
The librarian only checks out books right?
Duties: Between Us Both

Math Odyssey
Battle of the Books
Vex Robotics
Go Grow
Library Skills
Math Masters
Fixed Lessons
How do we accommodate our students within the limited scope of time?
Student Selection

Is Data-Driven based on EOG, CogAT, STAR, and BOY data
WHAT OTHER TYPE OF DATA WAS USED?

Teacher surveys
Transaction logs
Sign Up Genius data (historical data)
Enrichment group attendance
Teacher repeated sessions
Maker Club
Student surveys
MTAC input
Media review data
STAR and EOG assessment data
This year, our school has implemented an intervention block. To aid teachers, I have taken on 3 enrichment blocks for students not needing remediation. Each group has 5-15 students and meets Monday-Thursday. Student achievement was assessed quarterly to determine eligibility.
<table>
<thead>
<tr>
<th></th>
<th>2nd Nine Weeks</th>
<th>3rd Nine Weeks</th>
<th>4th Nine Weeks</th>
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<tbody>
<tr>
<td><strong>Library Skills</strong></td>
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<tr>
<td><strong>4th Grade Enrichment</strong></td>
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<td><strong>5th Grade Enrichment</strong></td>
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Choices

- Interactive Slideshow with Pathway Focuses (Choice)
- Vex Robotics
- Doodling Robots
- Makerspace (Choice)
- STREAM Cart (Choice)
- Green Screen
Pathway
Learning Menu

Students are able to choose from a variety of interest and find their own pathway.
4th/5th grade Enrichment
Expectations

1. Stay on the websites given to you - no browsing unless you have permission!
2. Good housekeeping - always clean up after yourself!
3. Be respectful of others while in the media center.
4. Keep noise and distractions to a minimum.
5. Stay on task and stay focused.
6. If you have a question while working, raise your hand.
7. USE COMMON SENSE.
Choose Your Own Adventure!

- Meet Monday/Thursday in Media Center
- 7:45-8:30AM
- Pathways of Learning- you will be choosing your own path and doing all the learning on your own!
Vocabulary Practice

Practice vocabulary skills while you donate to a good cause.

Free Rice
Coding Pathway

-Learn new coding skills or build upon what you already know

Kodable
Tynker
Code.org
Spanish Pathway

-Learn a new language!

-Basic words and phrases, building to simple sentences.

[Links to various Spanish language learning resources]
Logic and Brain Pathway

-Like word games and puzzles? This is the path for you!

Logic Games
Fun With Words
Free Rice
Online Puzzles
Design Pathway

-Want to learn more about architecture and interior design? In this path you can practice building a home and designing the inside to suit your needs and interests!

Floor Planner
Room Styler
Room Maker
Homestyler
Reading Pathway

-Read online and A.R. test to meet your goals.

Storyline Online
Story Jumper
NCWISEOWL
Magic BLOX
Mee Genius
Math Pathway

-Is math your thing?

Study Jams Fractions

Demolition Division

Multiplication (Animal Legs)
WHAT IS VEX ROBOTICS?

Vex robotics is a robotics program that allows students to build and code through challenges and collaboration.
× Vex IQ kits: Includes all manuals, building materials, batteries, controllers, etc.

× Ipad with Vex Modkit App

× Chromebook for updates and research
TEN 4TH AND 5TH GRADE BOYS WERE CHOSEN TO PARTICIPATE IN VEX ROBOTICS DURING OUR SCHOOL WIDE INTERVENTION BLOCK
KIDTERNs

4th Grade Team

5th Grade Team
CHALLENGE:
TO CREATE BATTLEBOTS
Lessons

If this is your first time, start with Unit A!

B. Let's Get Started

C. Your First Robot

D. Key Concepts

E. Mechanisms

F. Chain Reaction Programming Challenge

G. Smarter Machines
PRINCIPAL'S SHOWCASE
Would you interested in doing Vex Robotics next year?

- Yes: 72.7%
- No: 18.2%
- Maybe: 9.1%

What level do you expect to make on the Science EOG?

- 1: 45.5%
- 2: 54.5%
Take Doodling Robot Challenge
# Doodling Robot Challenge

<table>
<thead>
<tr>
<th>Problem</th>
<th>Action</th>
<th>Solution</th>
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<tbody>
<tr>
<td>Create geometric circles&lt;br&gt;Make all 3 colors circle on top of each&lt;br&gt;Make colors spin in a continuous perfect circle&lt;br&gt;Make a straight line</td>
<td>Using the materials below to solve all 4 problems.&lt;br&gt;1) Doodling robots&lt;br&gt;2) Markers&lt;br&gt;3) Paper</td>
<td>Develop a solution for each problem after working together and testing theories.</td>
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</table>
Doodling Robots

Objectives: Common Core

Math: The relationship between Wheel Rotations and Distance Traveled is a rate, customarily understood through a unit rate such as "# cm per rotation"

ELA: Reflection Question tasks include composing technical critiques, technical recommendations, and creative synthesis

https://www.youtube.com/watch?v=BHI1UzOqb90
-Enjoy hands-on learning!

-Choose one of the following activities to learn a new STEM skill.

Circuits

Osmo

Lego Storystarter/Stop Motion

Little Bits

Green screen
What is a Makerspace?

It is a place where people create and invent things through hands-on learning.
Osmo

With Osmo, you can....

Coding teaches logic and problem solving skills. Tangram fosters spatial relational skills.

Words teaches spelling and critical thinking skills.

Newton fosters creative problem solving skills.

Masterpiece teaches drawing and creative confidence.

Numbers teaches counting, addition and multiplication.
Lego Story Starter

Use your imagination to tell stories with Lego Blocks!
Ozobots

- Ozobots are small, smart toy robots that empower gamers and learners to code, play, create and connect the physical and digital worlds.
Ozobot Challenge

My boys and girls had a battle of wits. I gave both groups an Ozobot and they had to work collaboratively to figure out 5 key elements. The group that accomplished the task first won bragging rights.
Littlebits and Circuits

Using electricity to make things work!
Coding and More

Other things that we can do!

- Google Cardboard
- Using Cricut
- Make a Robot
- Paper Slide Shows
- Animoto Videos
- Design Bookmarks
- Design School Posters
- Create Art Display
- & More
STREAM Cart
K-2
Includes: 2 containers of foam pattern blocks with bells, 1 Strawbees crazy scientist kit (1000pcs.), 2 hot wheels track builder stunt box kits, 2 vowel owls sound sorting sets, 1 box magna-tiles (74pcs.), 2 code-a-pillars, 5 hot boogie boards, 1 I spy bingo game.

3-5
Includes: 2 containers of foam pattern blocks with bells, 1 Strawbees crazy scientist kit (1000pcs.), 1 box magna-tiles (74pcs.), 2 boxes K' nex education maker kit basic, 1 fraction puzzle game, 1 snap circuit arcade game, 1 kids charades, 1 gravity maze game, 2 connect 4 games, 2 domino rally: ultimate adventure kits, origami paper.
Green Screen

- Students had to work in teams to create a news show that included weather and local events.
What do you enjoy most about Intervention block?

- Helps me get ready for assignments
- Doing things that I have not been able to do
- Having Ms. Cook making fun activities
- Helping other people
- It’s quiet in the classroom
- Learning and build new things
- We do fun things and we learn
- Meeting Ms. Cook
- Getting to see my friends
- I enjoy doing coding games and maker space games.
- Learning
- Everything

Directed learning, where I got to choose what I wanted to do.

- Yes: 70.6%
- A little bit: 26.5%
- No: 2.9%
### Summarization of Data

<table>
<thead>
<tr>
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<th>2014-15 School Year</th>
<th>2015-16 School Year</th>
<th>2016-17 School Year</th>
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<tr>
<td>Whole Group Instruction</td>
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<td>Small Group Instruction</td>
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<td>Maker Club Sessions:</td>
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<td>Totals</td>
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</table>
The media coordinator and AIG support are valuable resources in implementing small and whole group instruction.
QUESTIONS?
Contact

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Completed in collaboration with Gabrielle Lamb

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