School & Public Library Partnerships: STEAM to Students

Deb Gaff
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Connect with Your Counterparts
What is Your Niche?

Call and Introduce Yourself

Present at Conferences –

IDOE Summer of Elearning

https://www.doe.in.gov/elearning/summer-elearning-list

ILF

School Staff Meetings After School

STEM / STEAM Activities

Story Times at the School
Bring the library to the students

- Book Talks
- Young Hoosier Book Talks
- Rosie Book Talks
- Battle of the Books

Contact the school librarian

- Make a Flyer
- What will you talk about
- How long is the talk
Another ways to help

- Digital Citizenship
- Citing Resources
- How to use informational databases
What does it take to start a Dojo?

- Space (office, canteen, etc)
- Chairs and tables
- WiFi
- Projector
- Some mentors

- Library
- Local Elementary School
- Local Middle Schools
- Connect with Coder Dojo Indiana - https://www.techpointyouth.org/coderdojo/
https://www.codeclub.org.uk/projects
Partnering with a Local Elementary School
Polygon Challenge!

Measurement

**Challenge 1**
- Draw a polygon with 3 sides.
- Use 3 colors.
- Each side is 5 inches long.

Name the polygon

How far does the Ozobot travel?

______________ perimeter
OzoBot Color Code Reference Chart

**Speed**
- Snail Dose
- Slow
- Cruise
- Fast
- Turbo
- Nitro Boost

**Direction**
- Go Left
- Go Straight
- Go Right
- Line Jump Left
- Line Jump Straight
- Line Jump Right
- U Turn
- U Turn (Line End)

**Win/Exit**
- Win/Exit (Play Again)
- Win/Exit (Game Over)

**Counters**
- Enable X-ing Counter
- Enable Turn Counter
- Enable Path Color Counter
- Enable Point Counter
- Point +1
- Point -1

**Timers**
- Timer On (60 Sec to Stop)
- Timer Off
- Pause (3 Sec)

**Cool Moves**
- Tornado
- Zig Zag
- Spin
- Backwalk
Online Lesson Ideas

Level UP

3D Printed Costumes
Program features
• Encrypting and decrypting
• Messages to crack
• Cryptography games
• Website activities
• Resources for teachers to create activities for their students

These activities promote
• Team work
• Self confidence
• Good mathematical practices
• Computational thinking
• 21st Century Skills
• Having fun while learning!
Coding with littleBits
Are you looking for a way to support your patrons in their quest to learn to code? Code Kits from littleBits are a great place to start. In this session you will have an opportunity to test drive the Code Kits and see how you can create an engaging and rewarding environment for coders – whether they are novice or seasoned pros! The littleBits Code Kits provide multiple learning pathways for coders as well as plenty of support materials for the facilitator.

Presenter: Deb Gaff, Bartholomew County Public Library

- ILF Southeast – April 20th New Albany-Floyd County Public Library
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