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hi



▶  
School & Public Library  
Partnerships:  
STEAM to Students

# Connect with Your Counterparts



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## 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**

**Can I help you?**



## **Bring the library to the students**

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

## **Contact the school librarian**

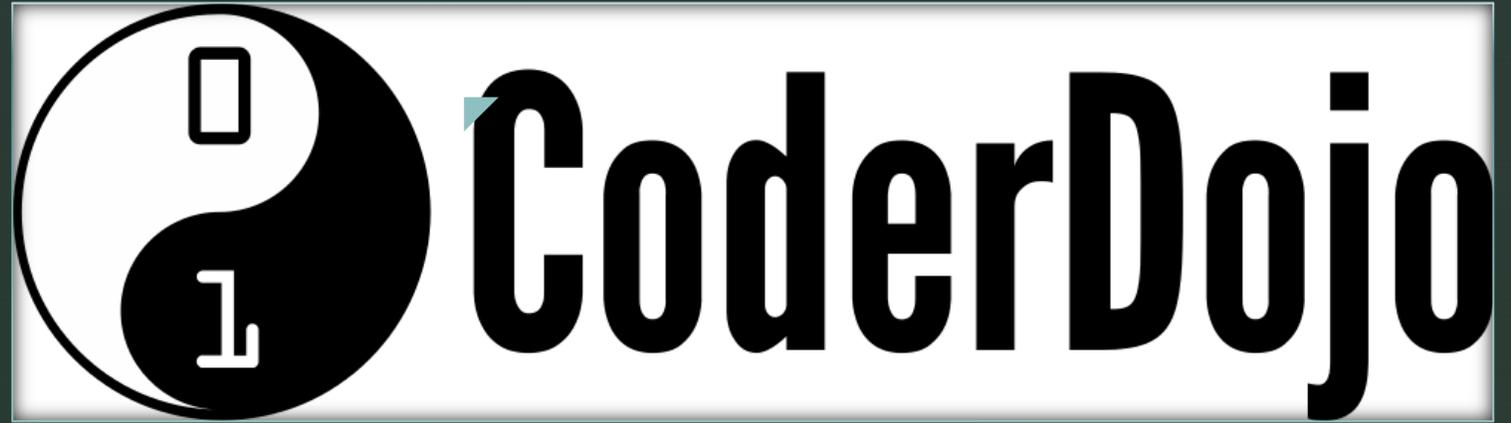
- **Make a Flyer**
- **What will you talk about**
- **How long is the talk**

**Can I help you?**



Another ways to help

- Digital Citizenship
- Citing Resources
- How to use informational databases



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What does it  
take to start  
a Dojo?

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

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- **Library**
- **Local Elementary School**
- **Local Middle Schools**
- **Connect with Coder Dojo Indiana -**  
<https://www.techpointyouth.org/coderdojo/>

## Scratch



38 Projects

## HTML & CSS



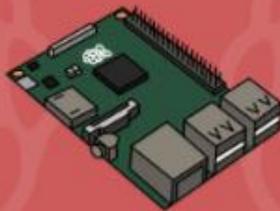
12 Projects

## Python



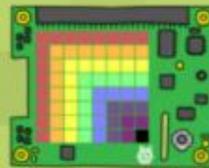
14 Projects

## Raspberry Pi



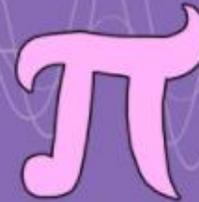
6 Projects

## Sense HAT



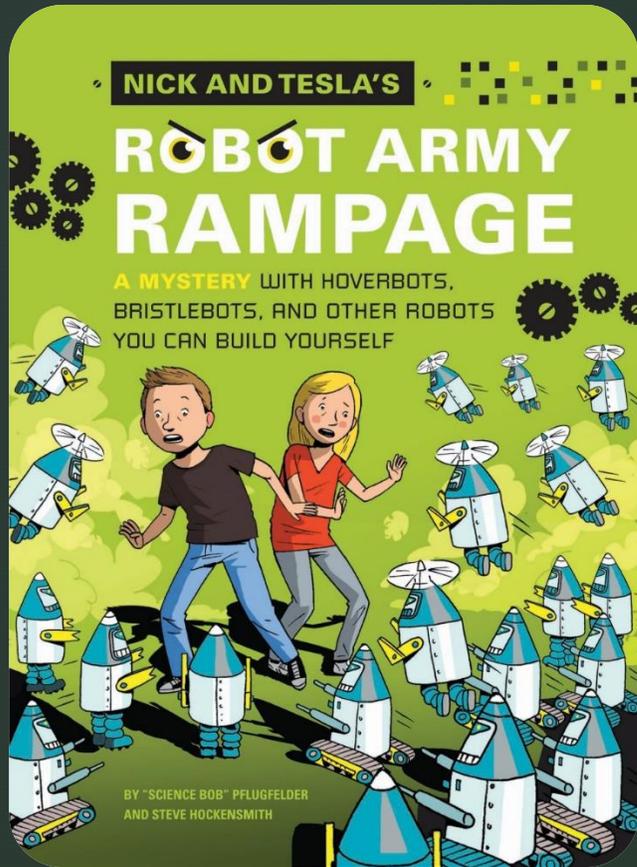
6 Projects

## Sonic Pi

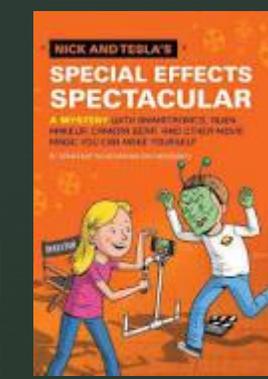
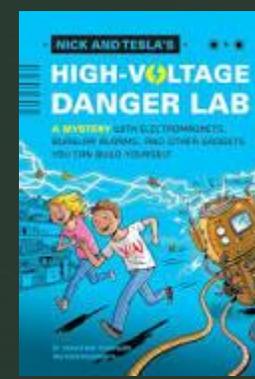


6 Projects

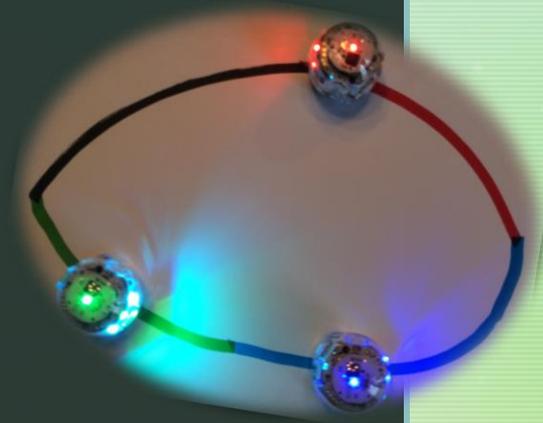
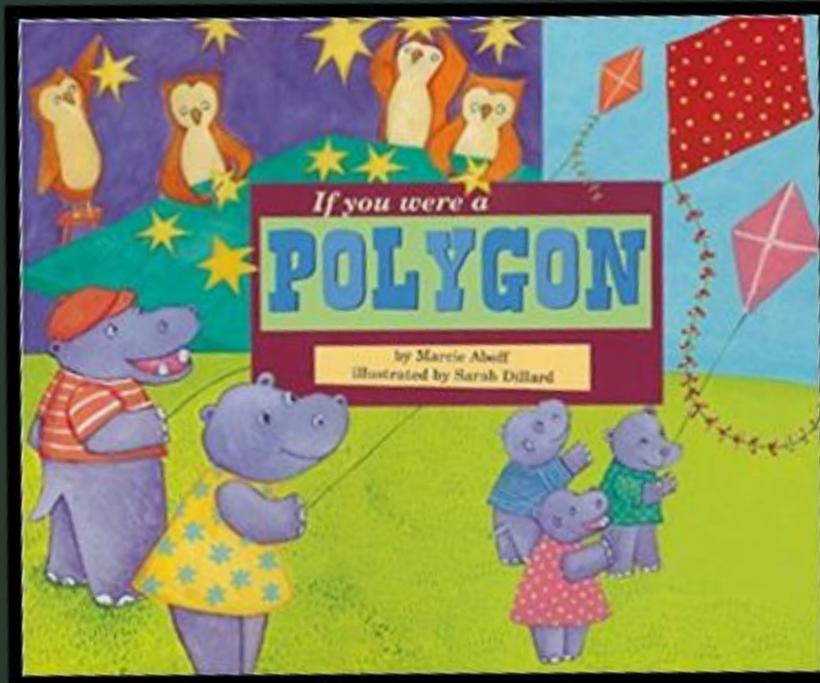
<https://www.codeclub.org.uk/projects>



# NICK AND TESLA BOOK CLUB



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





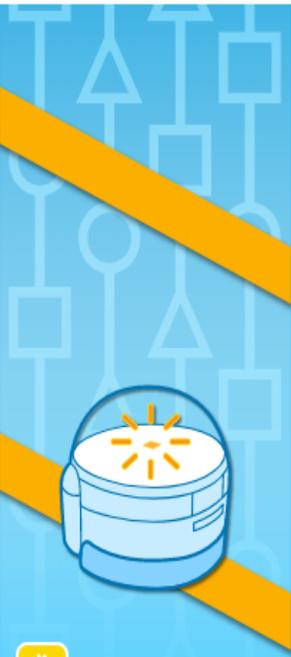
Goal



# Shape Tracer

Movement

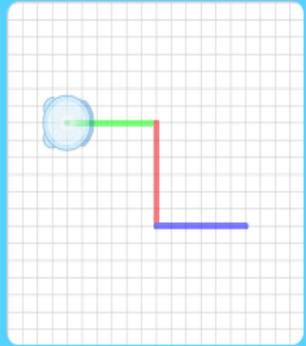
Light Effects



```

set light color [green]
move forward distance 6 steps speed slow
set light color [red]
rotate right
move forward distance 6 steps speed slow
set light color [blue]
rotate left
move forward distance 6 steps speed slow

```



Run

Load Ozobot Help



## OZOBOT LESSON LIBRARY

COLOR CODES  
BASIC TRAINING

OZOBLOCKLY  
BASIC TRAINING

DECONSTRUCTION  
COMPUTER SCIENCE SERIES

FIND LESSONS HERE

Q lesson, geometry, OzoBlockly, functions

SEARCH

K-1 RECOMMENDED STEAM INTEGRATED LESSONS

SEE MORE



Mission to Neptune  
by Ozobot



Write Your Name  
with OzoCodes  
by Ozobot



100 Centimeter Ozo-  
Dash  
by Ozobot



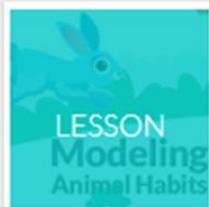
Code a Story - Coding  
with There Was a Cold  
by Jennifer Mellina



Create!  
by Joslyn Buhler

2-3 RECOMMENDED STEAM INTEGRATED LESSONS

SEE MORE



Modeling Animal  
Habits and Habitats  
by Ozobot



Ozobot's Fairytale,  
Lesson 1  
by Ozobot



Multiplication Table  
Practice  
by Richard Born



Ozobot Challenge in  
Chronological Thinkin  
by Ozobot



Eclipses and Celestial  
Mechanics  
by Ozobot

## 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 20<sup>th</sup> New Albany-Floyd County Public Library**

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