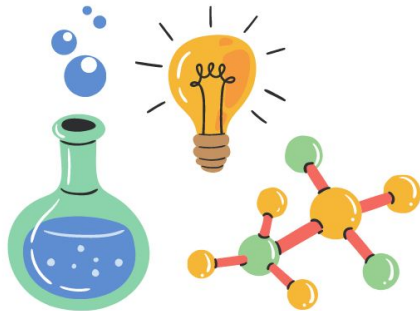


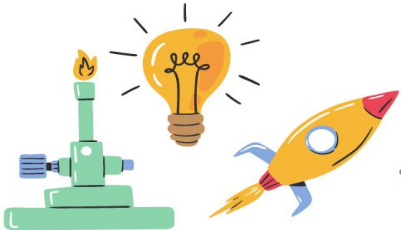
# You Can STEAM!

Katie Nedwick, she/her/hers  
Library Assistant - Youth Department  
Cedar Falls Public Library



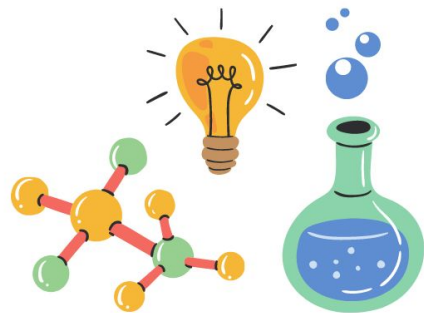
# Plan

- Introduction
- What is STEAM?
- Doubts
- Programs
- Resources
- Questions and Contact Information



# Hi, I'm Katie!

SHE HER  
HERS



# What is STEAM?

S - Science

T - Technology

E - Engineering

A - Arts

M - Math

Alternatives:

STREAM: R = Research

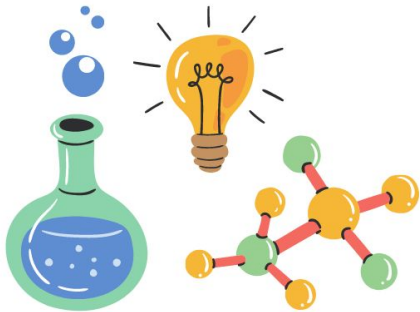
STEAM: A = Architecture





## Doubt

What if I don't know the  
answer to something a kid  
asks me?



## Tip #1

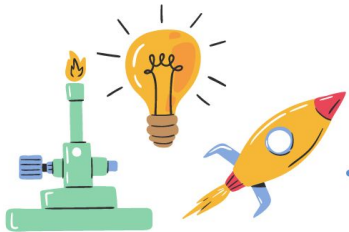
You don't have to  
know all the  
answers!



# Program Idea

## Worm Farmer for a Day

Worm Factory 360  
Worm Composting Bin



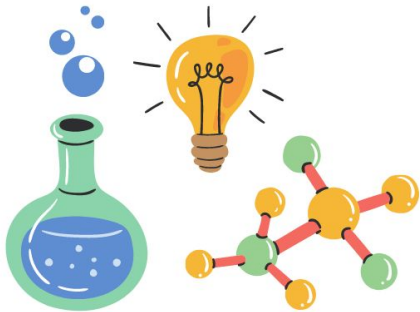






# Helpful Tools:

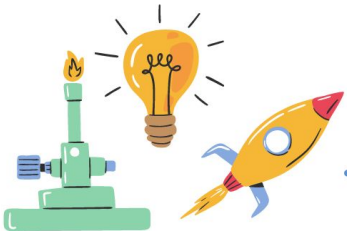
- Moisture Meter
- PH Meter
- Thermometer
- Kid Sized Gloves
- Hand Rake



Worm Farmers:  
The Squirm Firm

Uncle Jim's Worm Farm

Make your own  
worm farm with  
a tote



# Resource

[Scale-Up Award](#) by  
the Iowa Governor's  
STEM Advisory  
Council.

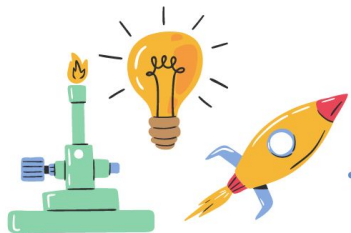
Applications are  
open until Feb. 28.

- Computational Thinking in Action with Micro:bit (Grades 3-12)
- Daily Math Fluency (Grades K-8)
- Ioponics (Grades PreK-12)
- Iowa Leadership in Engineering Design (Grades K-12)
- Project GUTS (Grades 6-9)
- Ready, Set, Drone (Grades 4-8)
- Robot Investigations with Finch Robot (Grades 4-12)
- Storytime STEM-packs (Grades (PreK-2)
- Tiny Techies (Grades PreK-2)
- WaterWorks (Grades PreK-2)



Doubt

I just can't do STEAM stuff.



Tip #2

You are already  
doing STEAM  
activities!

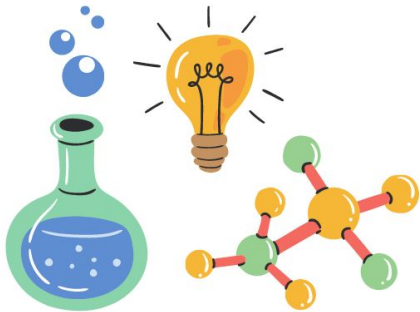




# Program Idea

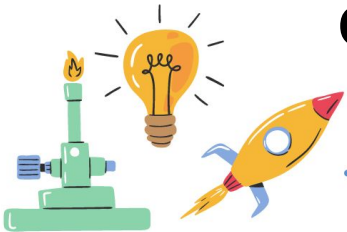
## STEAM Storytime

The Roots of STEM  
Success and Educator  
Resources by Bay Area  
Discovery Museum



# Aspects of my STEAM Storytime

- Try to include a simple nonfiction book.
- Do four centers, each with a different activity (one can be an related art activity, but it doesn't have to be.
- Currently giving them a take home activity, ex: marshmallows & toothpicks or paper tangrams.



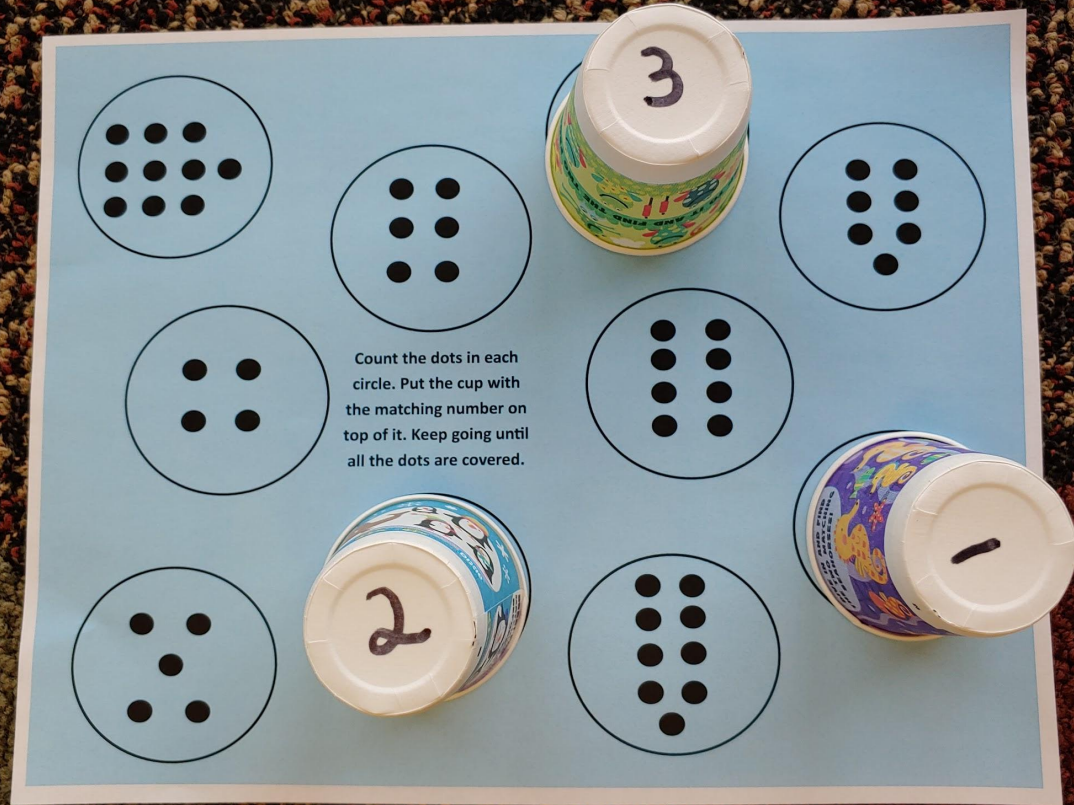
# Topics I Have Done

<b>Science</b>	<b>Technology</b>	<b>Engineering</b>	<b>Math</b>
Water	Robots	Building	Numbers
Animals (Bats & Dinosaurs)	Patterns		Measurement
Body			Shapes





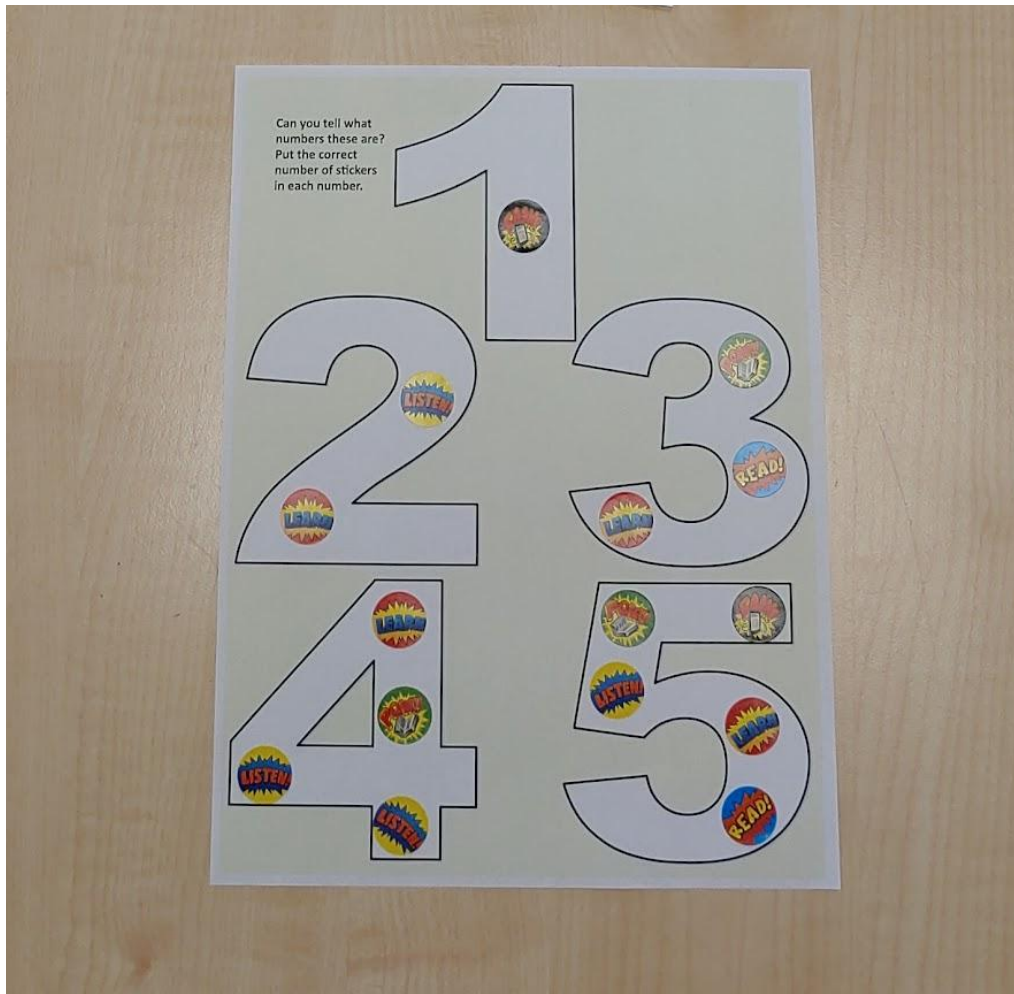
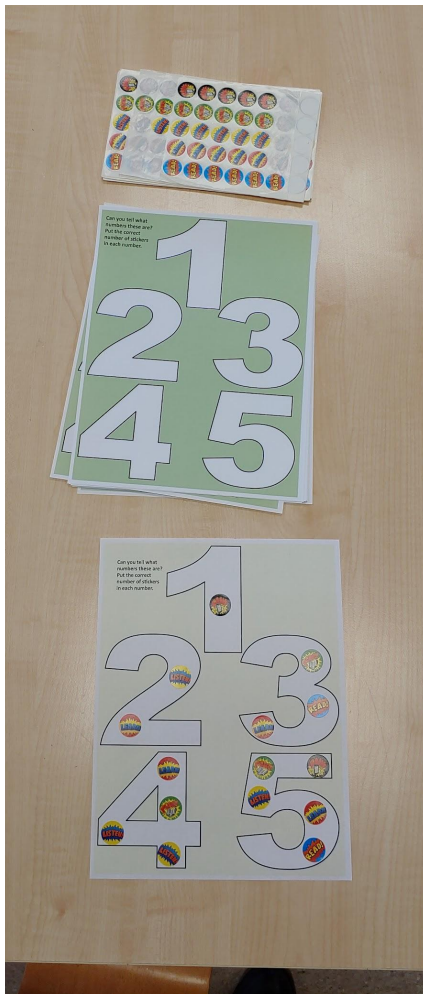




Count the dots in each circle. Put the cup with the matching number on top of it. Keep going until all the dots are covered.

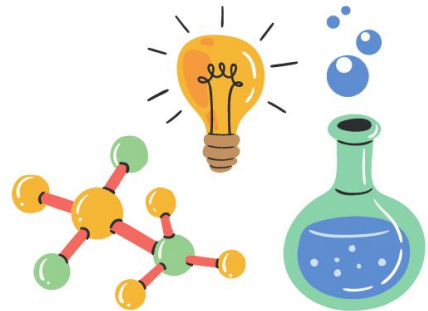






# Resources

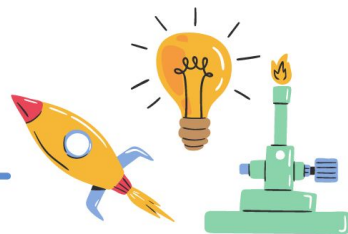
- Pinterest:
    - Search for topic STEAM (or STEM) grade  
Ex: Water STEAM PreK
    - [Cedar Falls Public Library](#)
    - [Little Bins for Little Hands](#)
    - [The STEM Laboratory](#)
    - [Busy Toddler](#)
- 





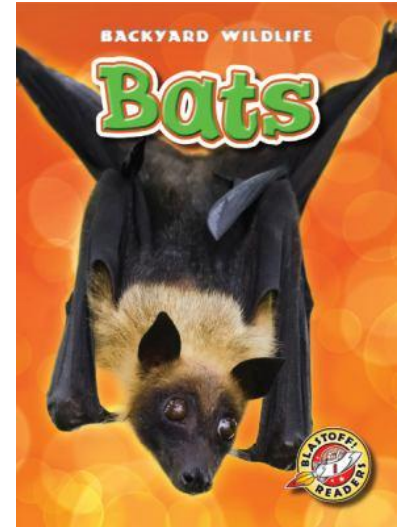
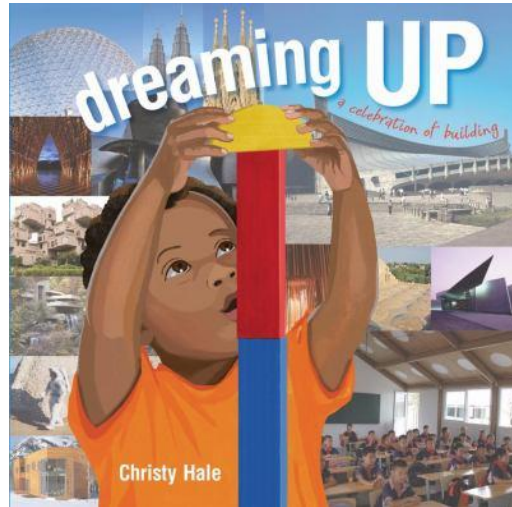
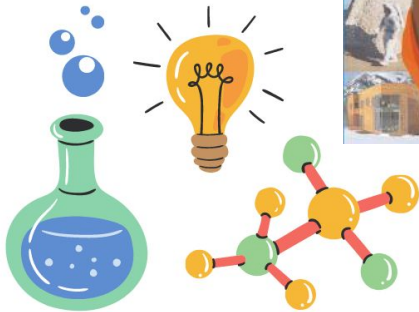
# Resources

- Internet:
  - Search for STEAM (or STEM) Storytime
  - [Preschool STEAM](#)
  - [The Show Me Librarian](#)
  - [Storytime Katie](#)
  - [STEM in Libraries](#)



# Resources

Don't forget about books!

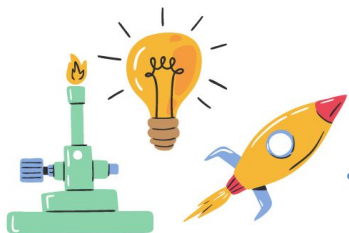


Doubt  
It's too hard.



Tip #3

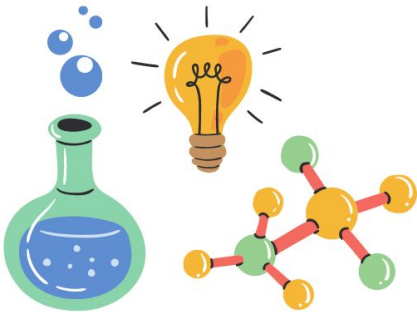
In a library youth  
department, STEAM  
can be very simple.



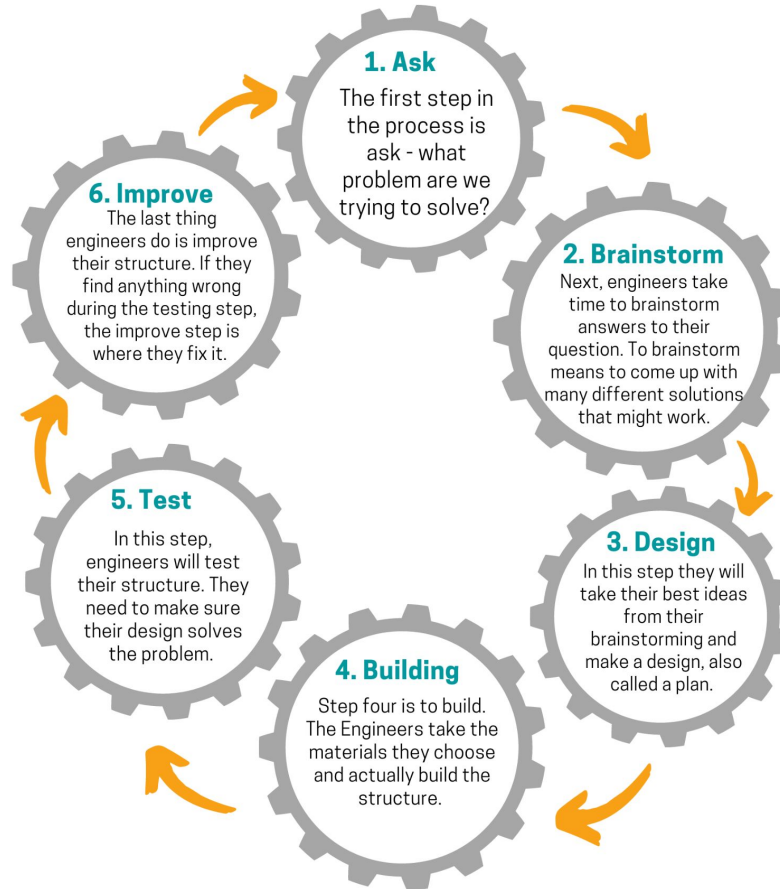
# Program Idea

## Fairy Tale Engineering

- Three Little Pigs - Build a house that can withstand the wolf's huffing & puffing (a fan).
- Three Billy Goats Gruff - Building a bridge that can hold the troll and/or a goat (puppets).



# THE ENGINEER DESIGN PROCESS



[Link to PDF](#)





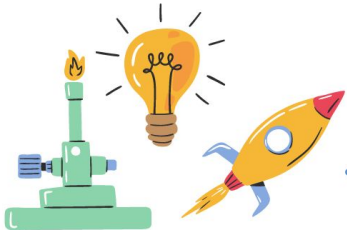






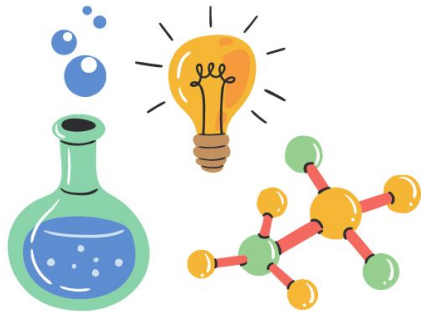
# Resource

## Storytime STEM-Packs



## Doubt

What if I can't think of any ideas for programming?



## Tip #4

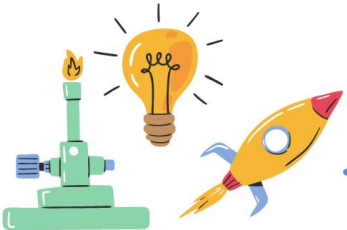
Once you're in it,  
STEAM magically  
finds you.



# Program Idea

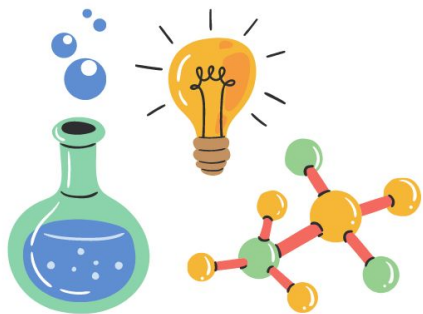
## STEAM Grab N' Go Kits

- Included: instructions, materials to do activity, booklist, additional related materials (coloring sheets, informational sheets, glowsticks, etc.)



# Grab 'N Go Ideas:

- [NASA's UV Color Changing Kid](#)
- [NASA's Cloud Teller](#)



Found a [Cloud in a Jar experiment](#) on Steve Spangler Science and am turning this into an in-person program.

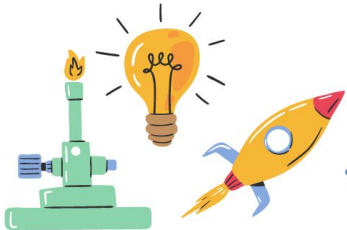


# Resource

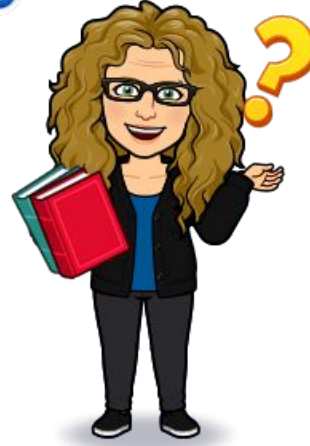
## IEEE Science Kits for Public Libraries

Apply Beginning of Nov. - Middle of Jan.

For libraries in the states of: Iowa, Michigan, North Dakota, Minnesota, Wisconsin, and portions of Illinois, Indiana, Ohio, Nebraska and South Dakota.



*Any Questions?*



Katie Nedwick

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[librariankatblog.wordpress.com](http://librariankatblog.wordpress.com)