21ST CENTURY DOROTHY

LITERACY-LINKED STEAM PROGRAMMING

Science

Technology

Engineering

Art

Math

ROCKINGHAM
FREE PUBLIC
LIBRARY

Little library….

BIG impact!

Westford Public Library

Deborah Rawson Memorial Library

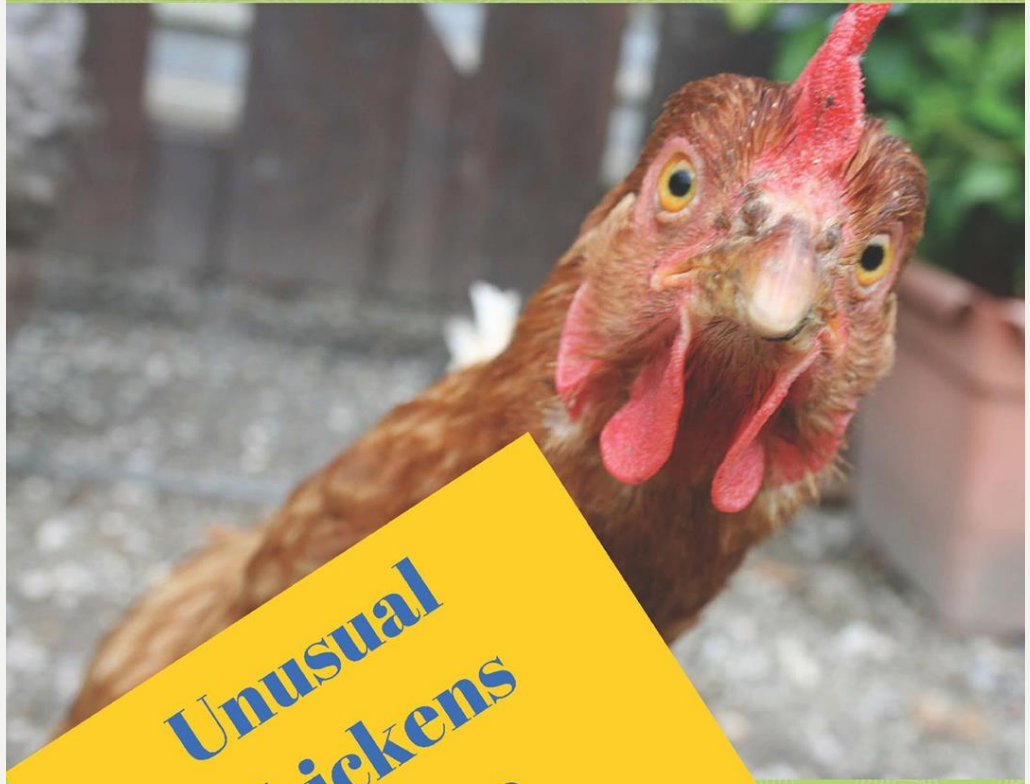
Technology & Art - Alternative Book Covers with Canva

- Canva is FREE
- Intuitive and easy to use
- Canva is available for iPads, tablets, and desktops
- Easy to share images, email them, and post to groups or social media

How to use with Dorothy's List?

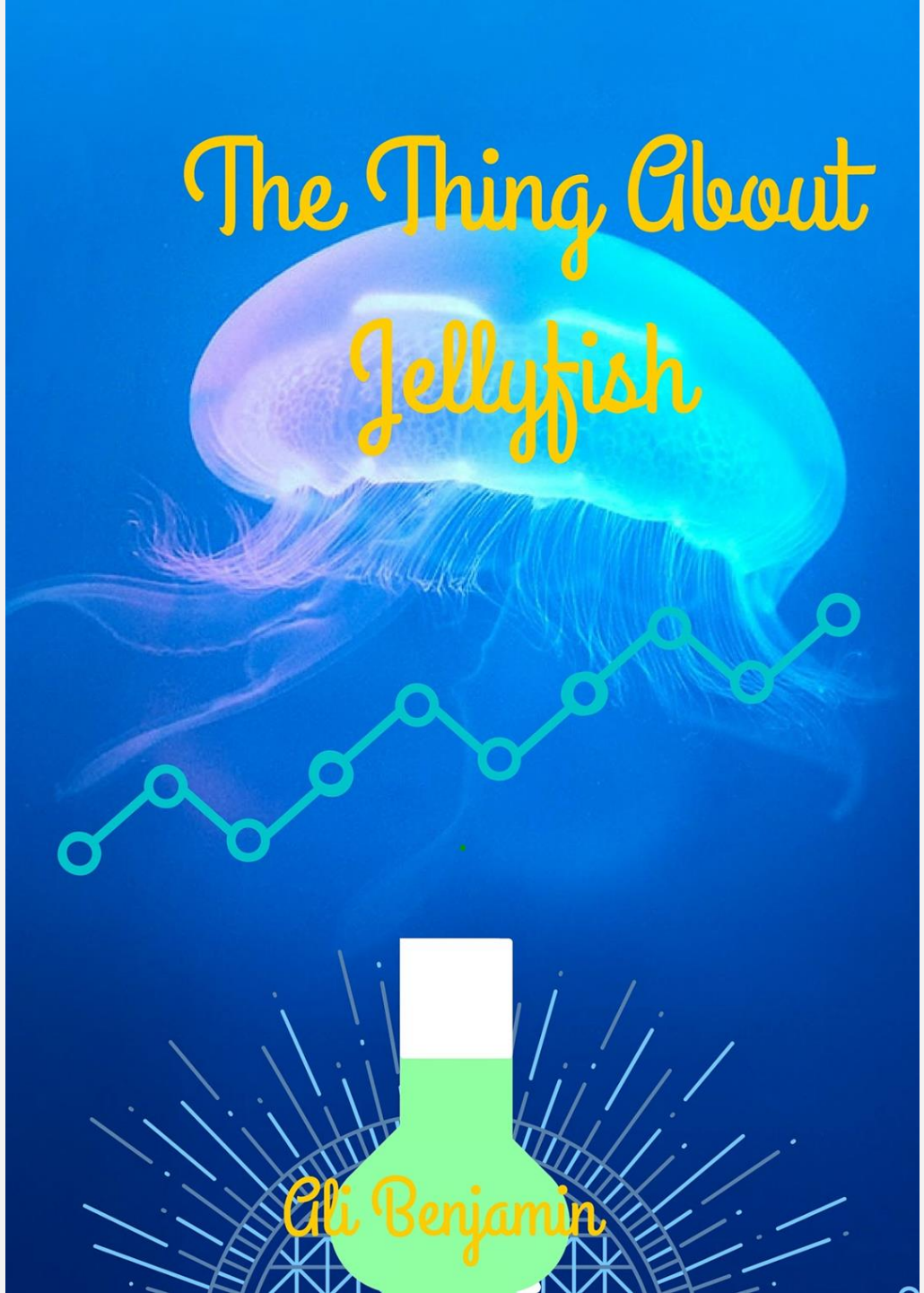
Use Canva to make alternative book covers!

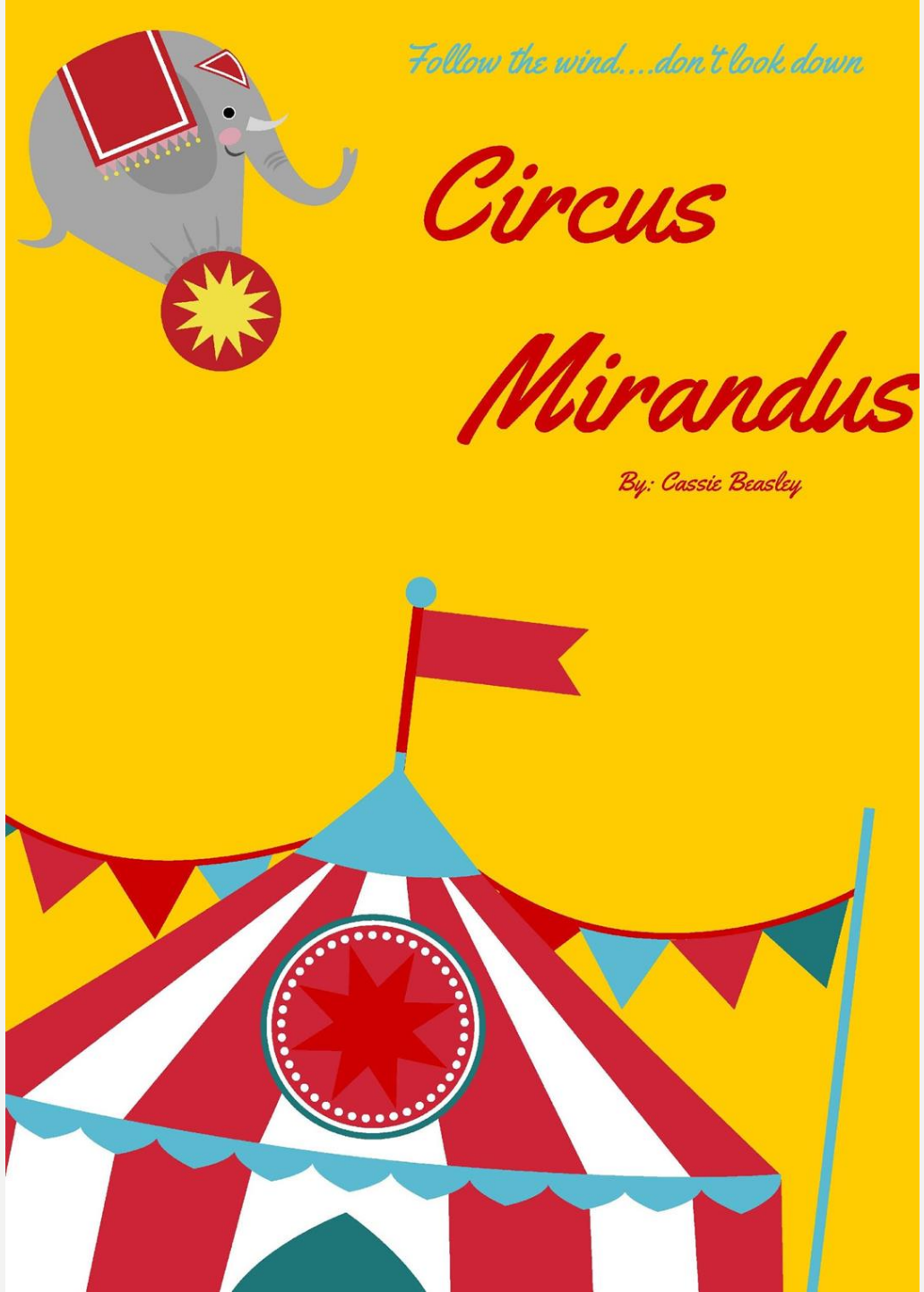
- Shows kids read to understand deeper meaning
- Explore symbolism
- Incorporate design elements, talk about what "sells" in the book world
- Conversations around copyrighted images
- Have a contest
- Great as a summation activity for book groups

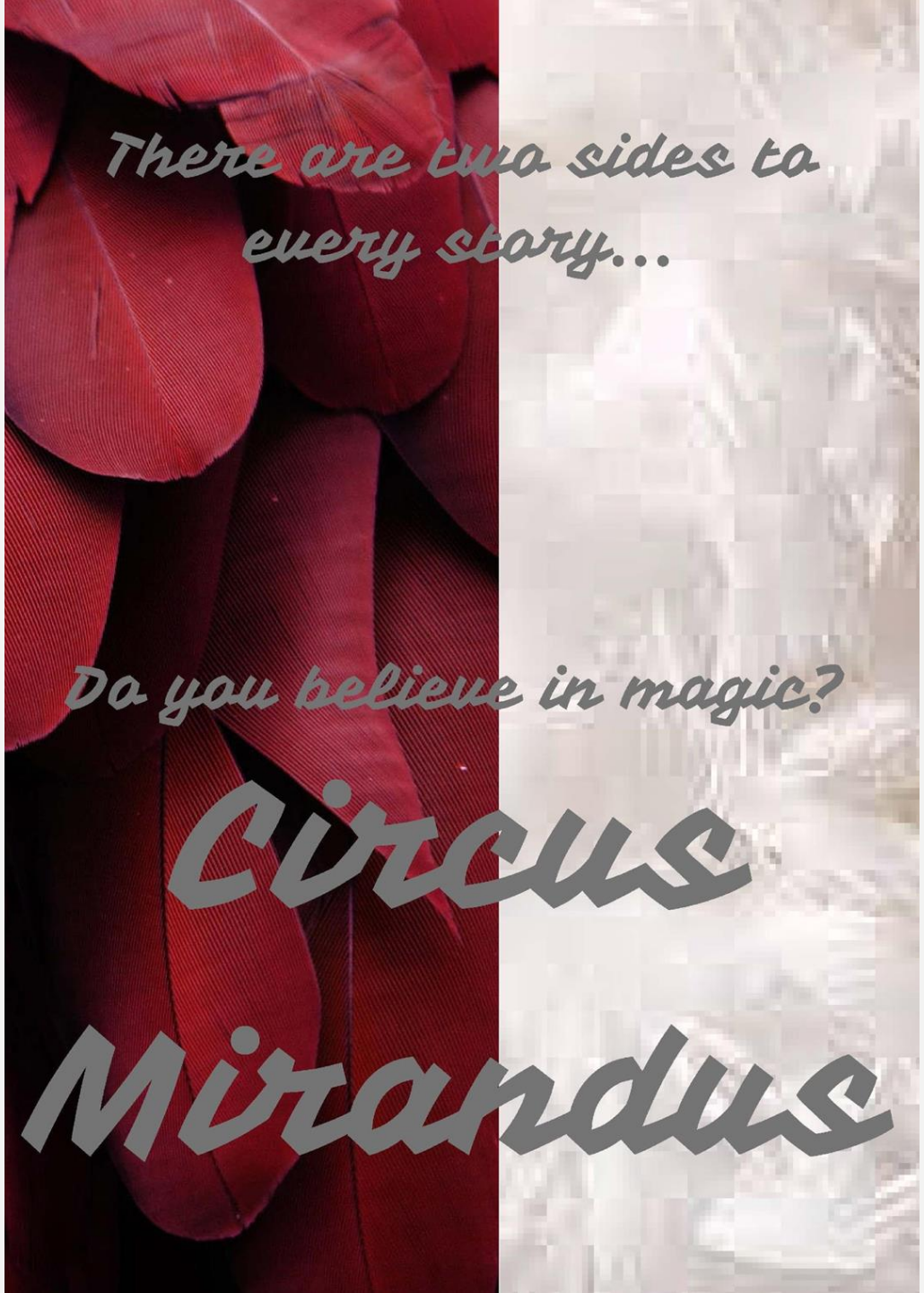


Unusual Chickens for the Exceptional Poultry Farmer

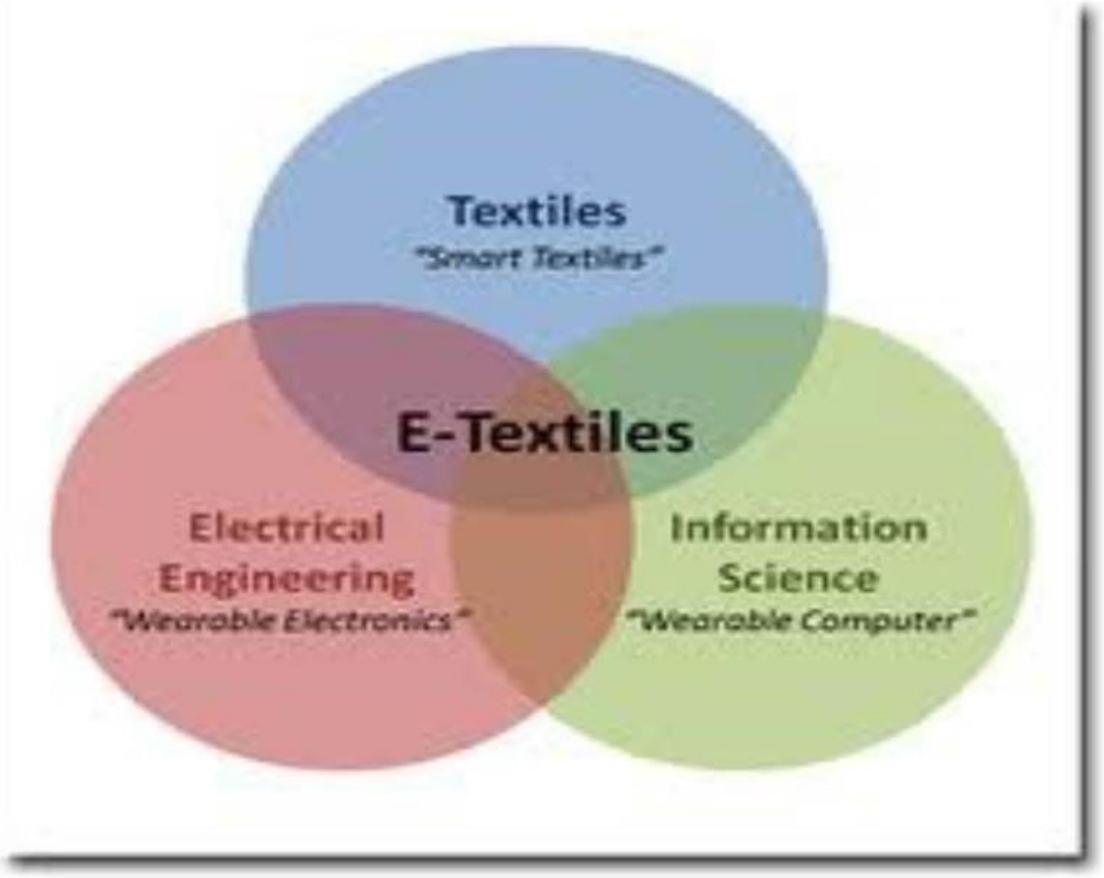
By: Kelly Jones


The Thing About
Jellyfish
Ali Benjamin


Follow the wind....don't look down
Circus
Mirandus
By: Cassie Beasley

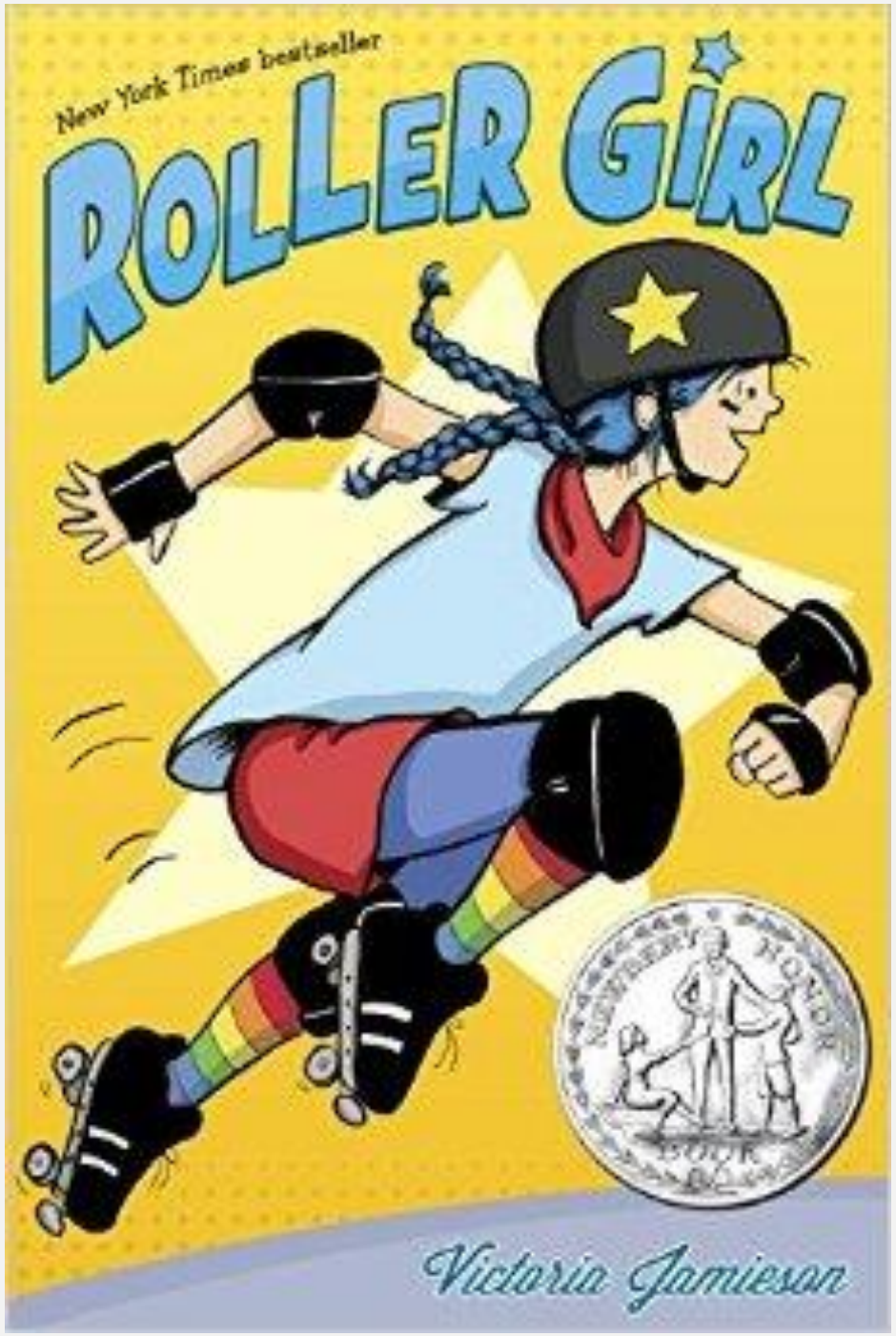

There are two sides to every story...
Do you believe in magic?
Circus
Mirandus

Technology (Electricity!) and Art - eTextiles



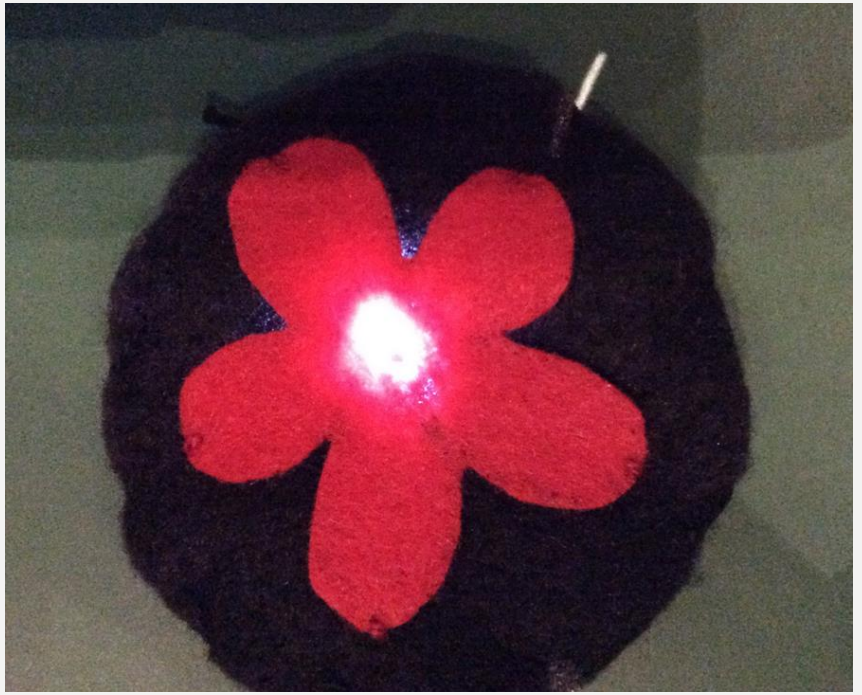
Here are some of the tools I use for e-textiles and an example of a project I have done. E-textiles is best done with older kids (10 or older). Prior knowledge of very basic sewing is a plus but not essential. These projects take at least 2 hours.

PS - I'm a terrible seamstress!



How to use e-textiles with Dorothy's List?

The "Rainbow Byte" eBadge
(do you appreciate the clever pun?)



You don’t really need a lot of supplies:

Felt, safety pins, embroidery thread (all of which you might have)

Basic sewing supplies

Conductive thread, LEDs, coin cell batteries (easy to get on Amazon)

SEWABLE coin cell battery holders (Adafruit.com)

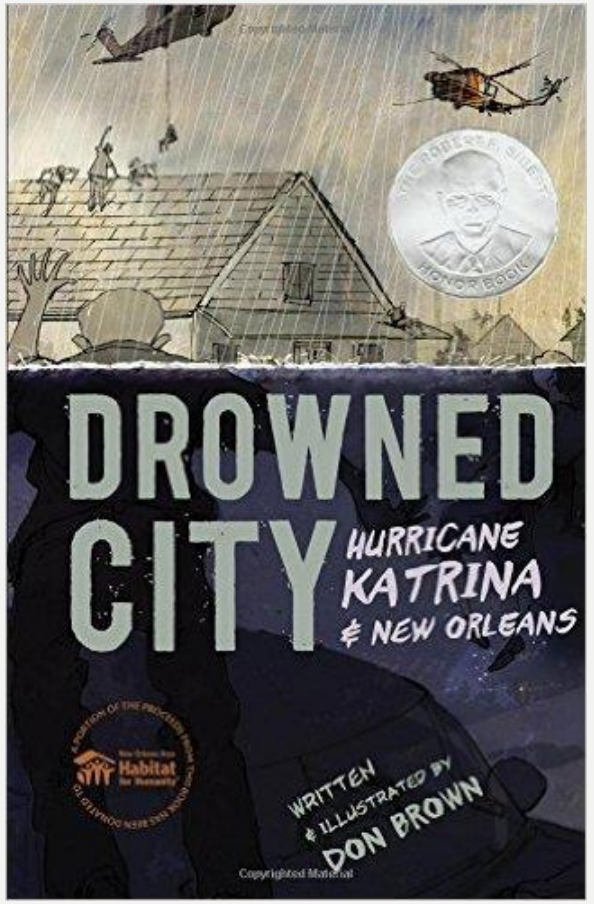
Patience (might be harder to come by with this age group)

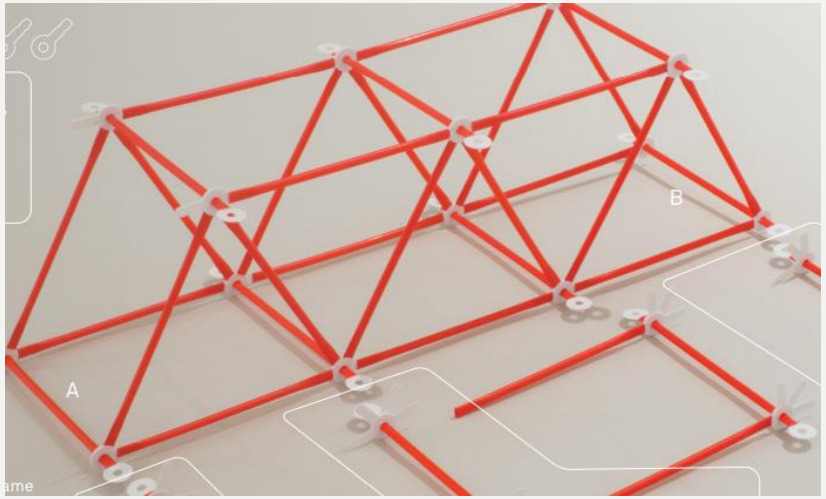
2 hours or three class periods (basic sewing + design + circuit)

If sewing is not your thing - or you don’t think you can convince your kids to do it - then you can do a very similar project with cardstock, LEDS and copper tape.

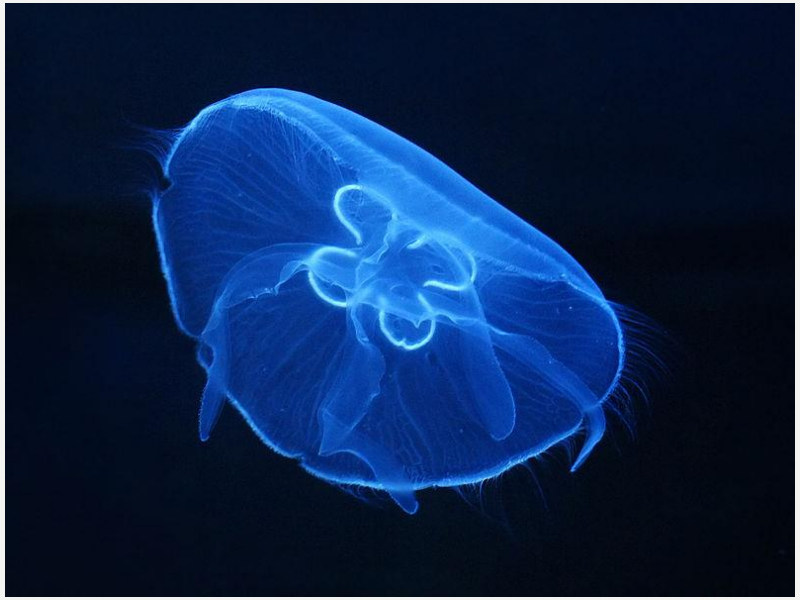
The picture can't be displayed.

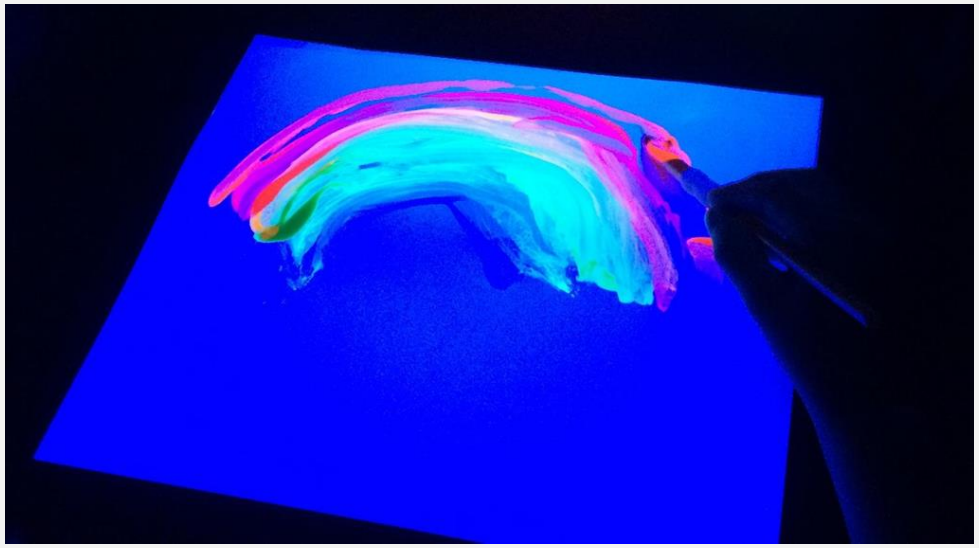
Engineering



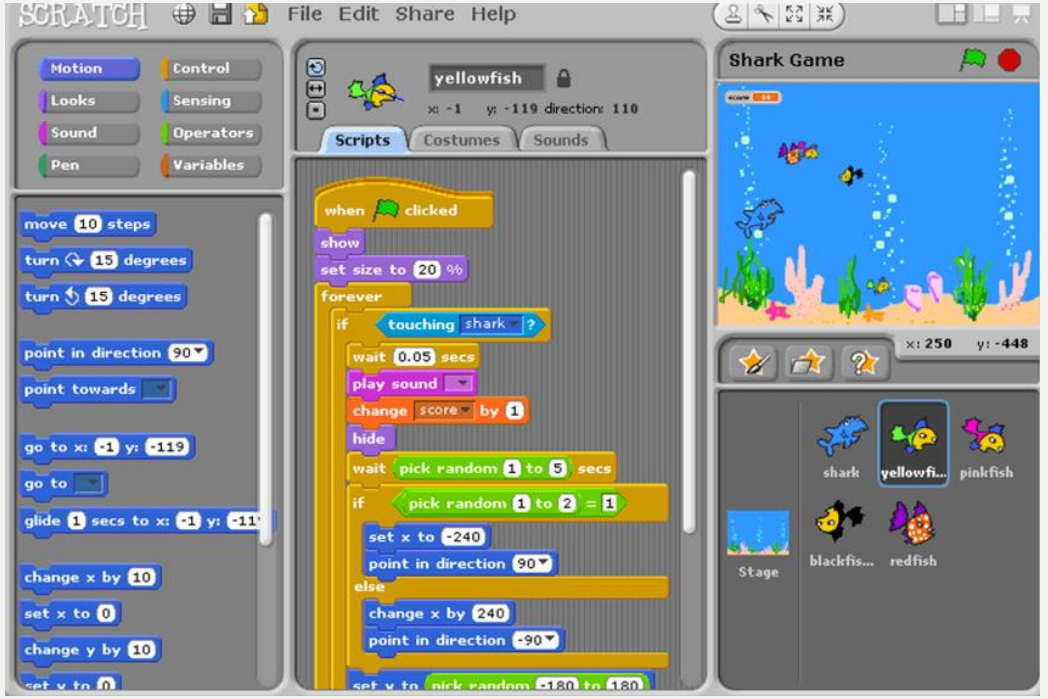


Science (Chemistry) and Art





Math, Technology, and Storytelling



Technology and Storytelling

- ★ Inexpensive ($1.99)
- ★ Easy to Use
- ★ Use your own pictures or download
- ★ Creative
- ★ Fun!

How to use with Dorothy's List?

- ★ Retell a scene from the book
- ★ Make an alternative ending

OW!
POW!
DIE!!!!
BANG!
OOF😣
VICTORY!😊
WESTFORD
TURKEY
TROT.

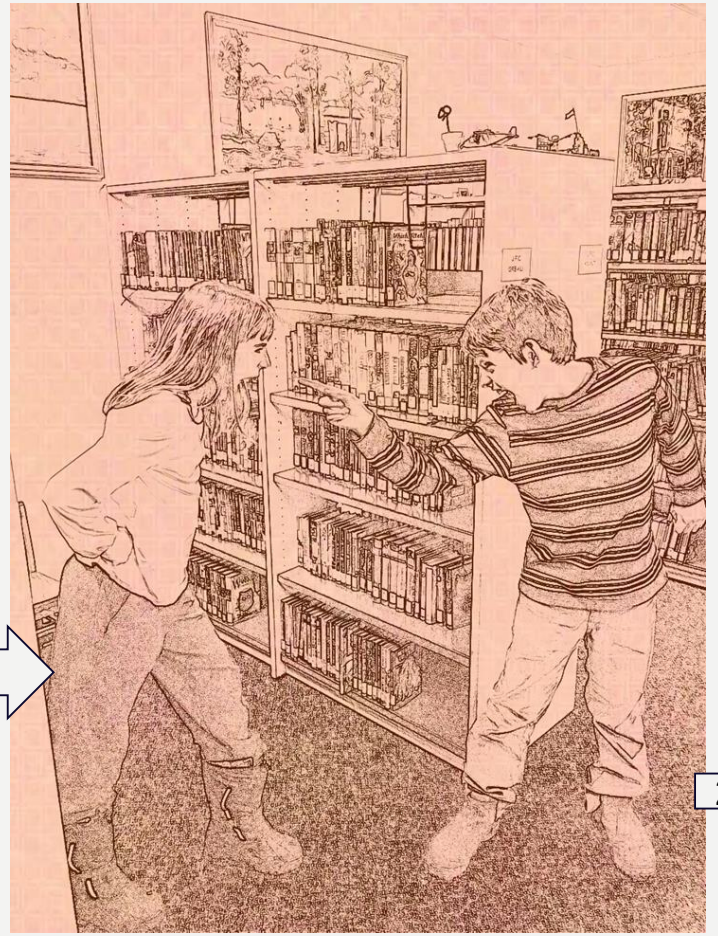
HE
HE😈
TAKE
THAT!
YEOW!
BAM!
CURSES😟😟
I WIN ONCE
AGAIN.😎😊

WHEN YOUR HUNTING...
NOTHING CAN STOP YOU...
FROM DOING WHAT NEEDS TO BE DONE...
IN ORDER TO SURVIVE.

Photo Sketch

Photo Sketch is a simple,funny and professional app that lets you convert your photos into sketches or cartoon avatars by applying up to 20 different image effects filters.

1



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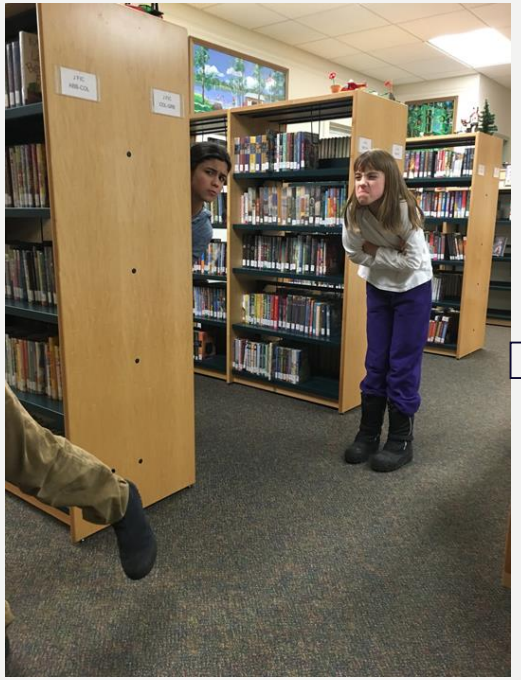

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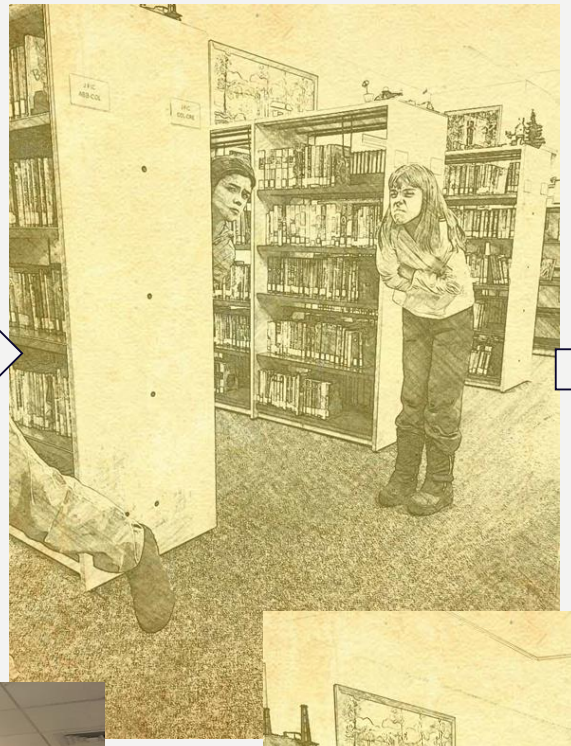
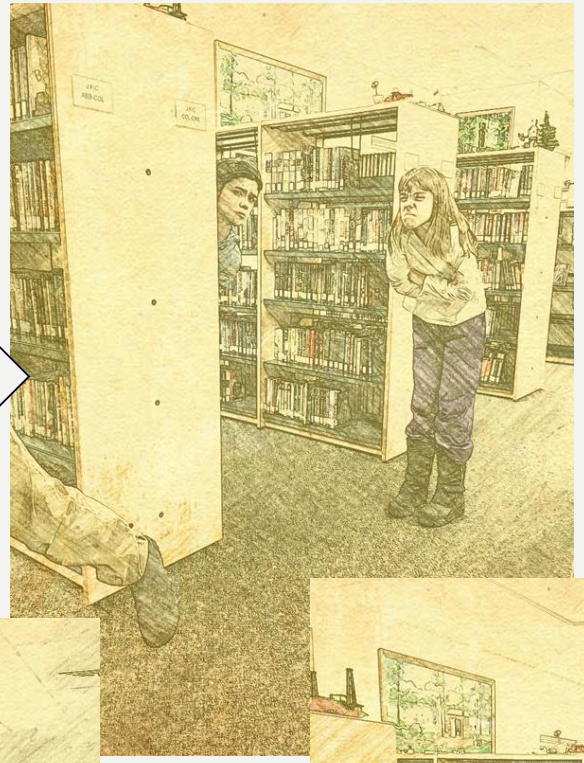
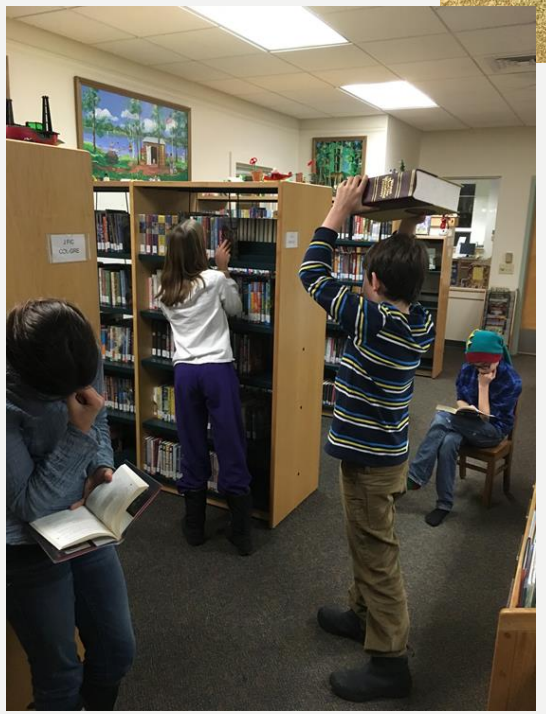
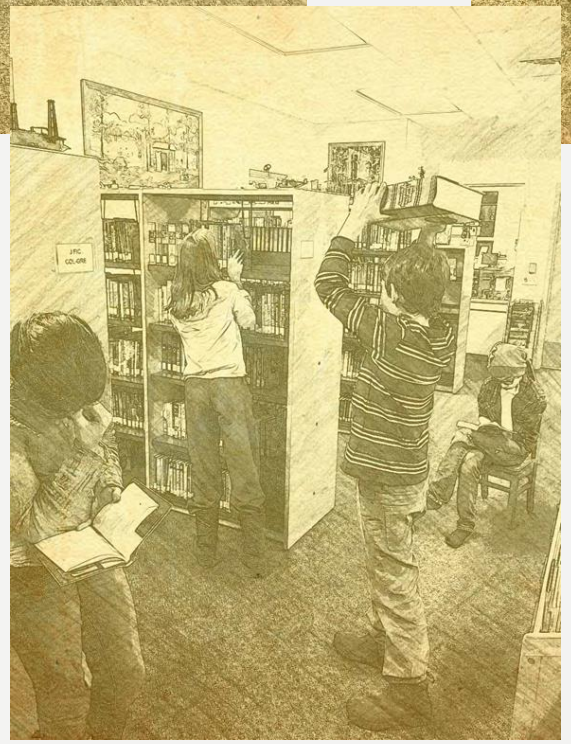


or that

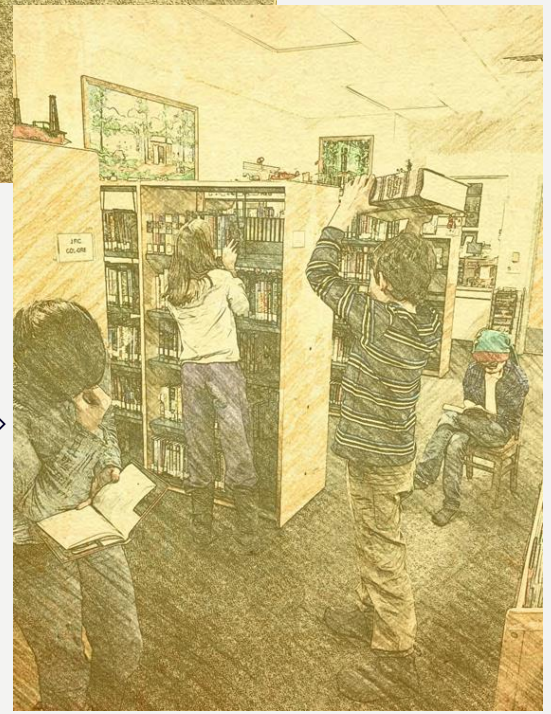




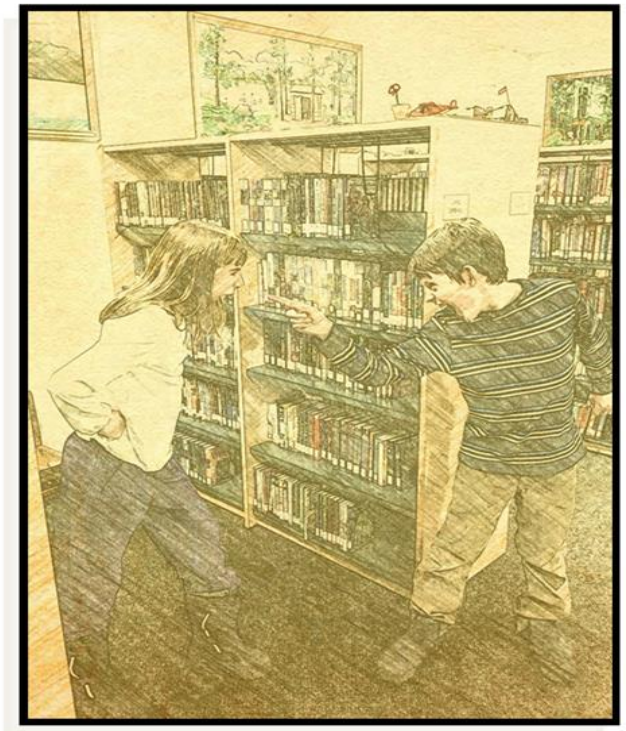
A

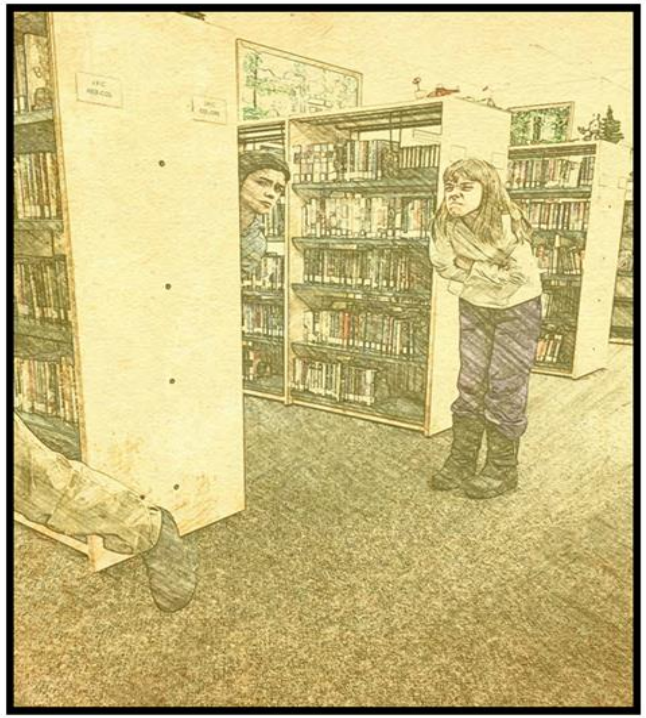


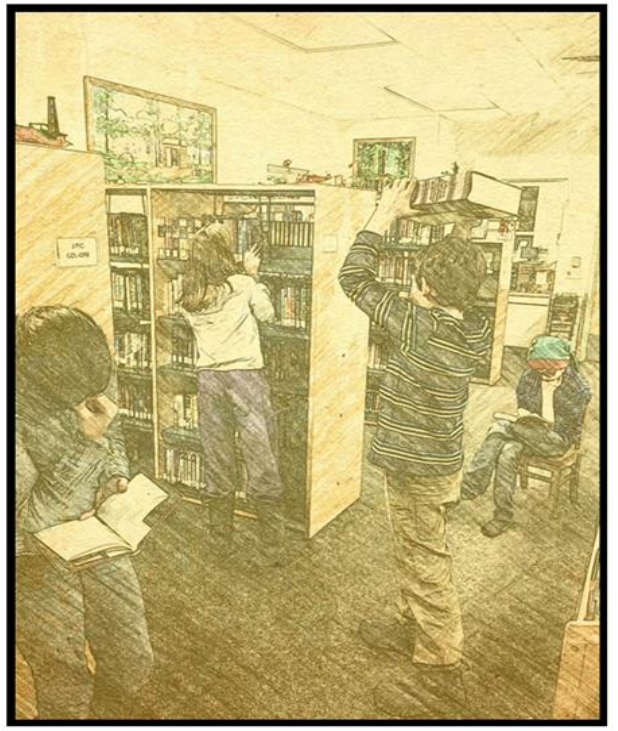
or B



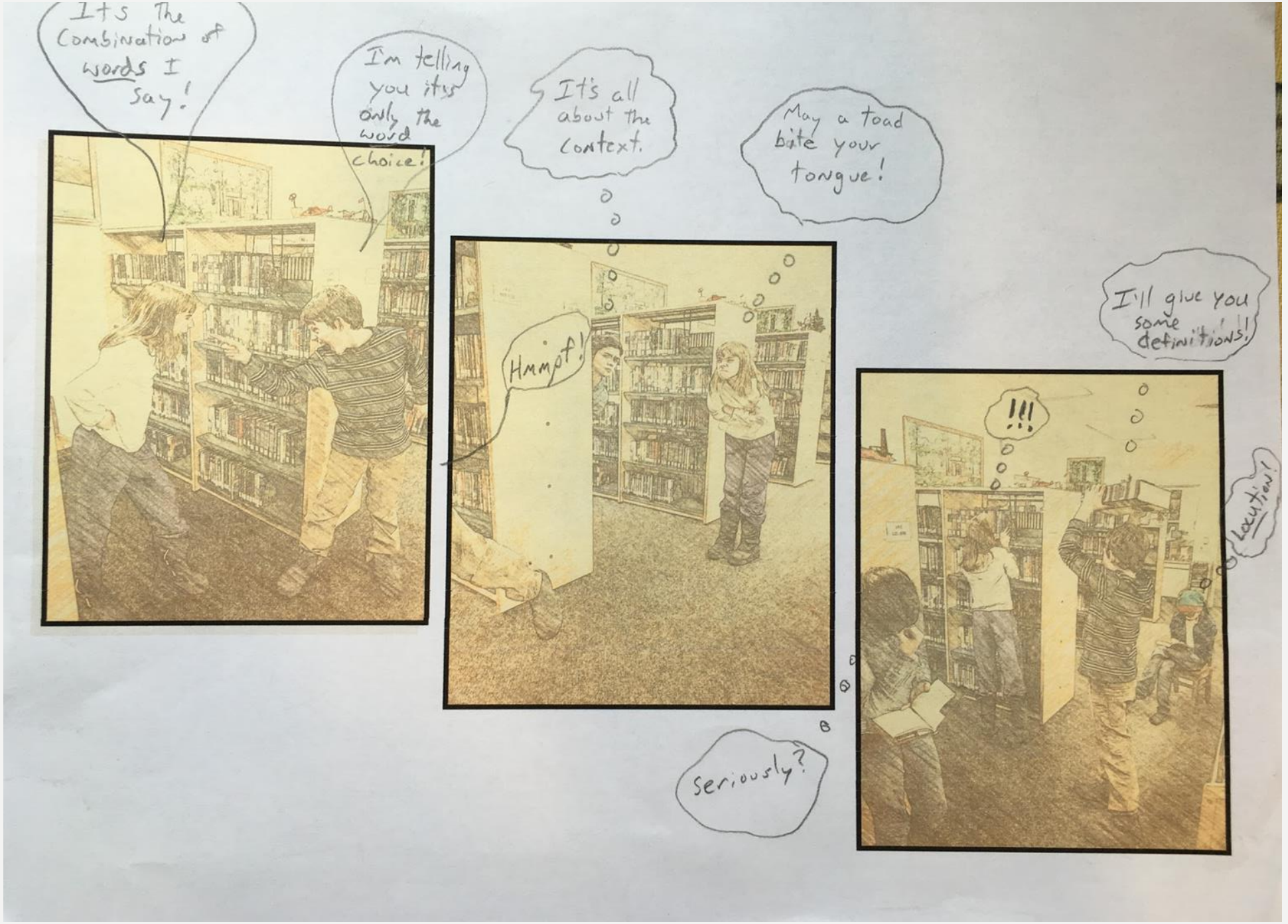
Copy from photos and insert in document.







Kids! Add in your own word clouds to tell the story

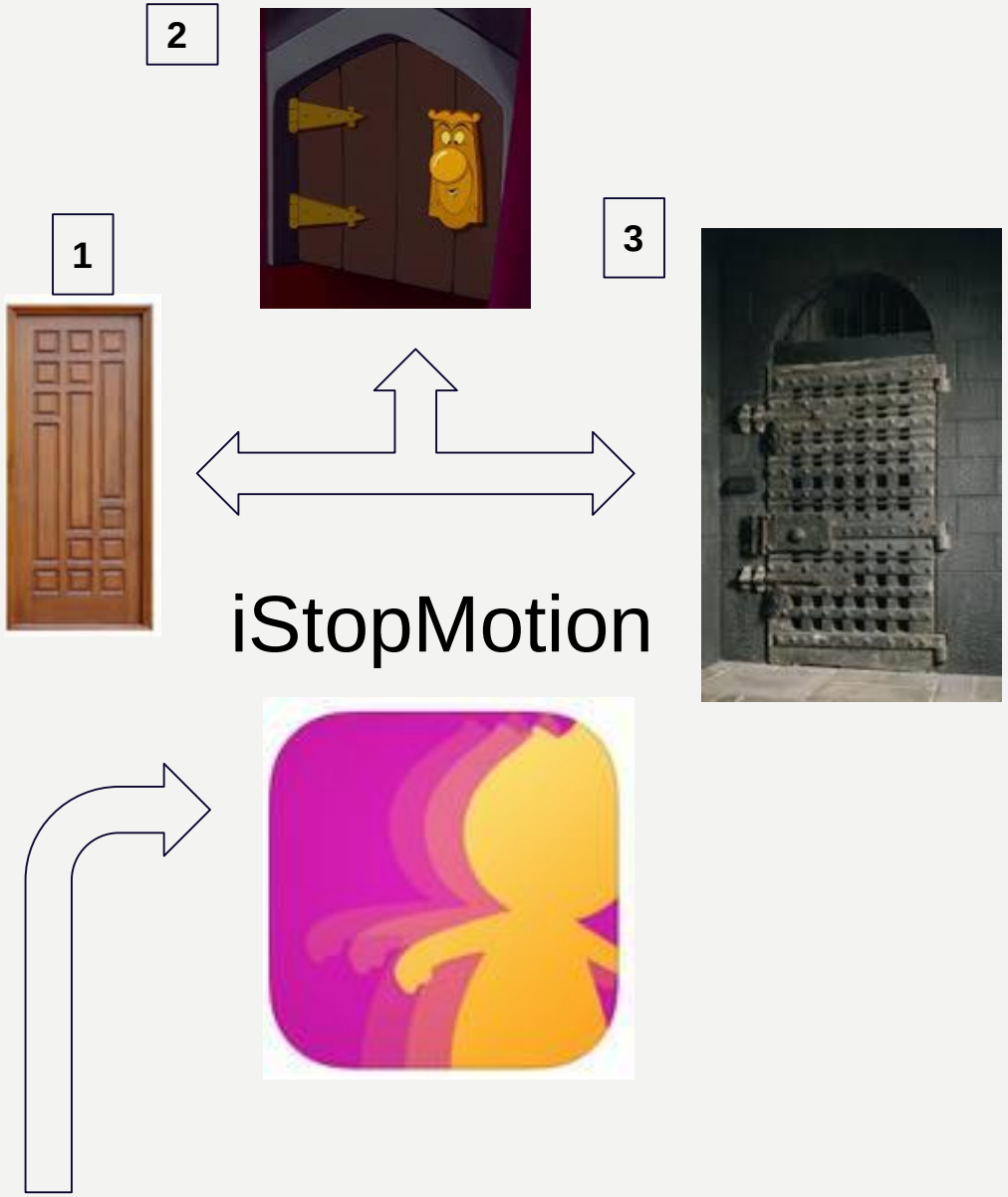


WELCOME TO MAKEBELIEFSCOMIX.COM
CREATE YOUR OWN COMIC STRIP - IT'S EASY AND FUN!
CREATED BY BILL ZIMMERMAN - ART BY TOM BLOOM - COMIC STRIPS BY YOU!
DOWNLOAD HUNDREDS OF FREE PRINTABLES!
DOWNLOAD FROM iTUNES!
App Store
NAME YOUR COMIX
AUTHOR'S NAME
GETTING STARTED
Print/Email
Move
Scale
Bring to Front
Flip
Delete
Start Over
MENU HELP
Click here to write words.
Click here to write words.
Click here to write words in language of your choice.
NEXT
DIALOGUE PROMPTS
PANEL #2
SELECTION WINDOW
OUR DIVERSE CAST OF CHARACTERS
ANIMATED!
NEW!
SELECT FROM OUR WORDS, OBJECTS AND BACKGROUNDS
POW
EEK!
CLICK TO SELECT
SCROLL TO VIEW CLICK TO SELECT
USE ARROWS TO SELECT EMOTIONS, OBJECTS, SCENES, BALLOONS & PANEL PROMPTS. CLICK TO ADD TO PANEL.
8 TALK BALLOONS
8 THOUGHT BALLOONS
PANEL PROMPTS
THE NEXT DAY...
BACKGROUND COLORS
PANEL CHOICES - SELECT ONE

iMovie

Create your own movie or movie trailer. My iPhone 6 was used to create the following trailer...

CLICK HERE



I used iStopMotion to create my story one frame at a time.

Create a Claymation or Stop-Motion Video

- ★ Make a plan - write a script and create a storyboard.
- ★ Gather materials. (clay, foil, pipe-cleaners, movie-making device and app, table, light, cardboard, tape)
- ★ Create your figures and a backdrop.
- ★ Start shooting pictures, lots of them! (12 frames per second - choppy, 24 fps - smooth)
- ★ View and edit (if needed) what you've created often.
- ★ Use Apps editing tools to add effects and music.
- ★ Be patient and have fun! The results are worth it!
- ★ Share your work.

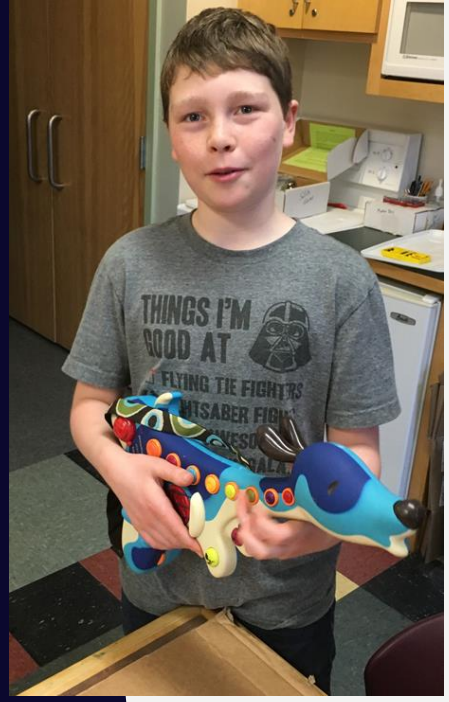
More detail can be found on these 3 sites

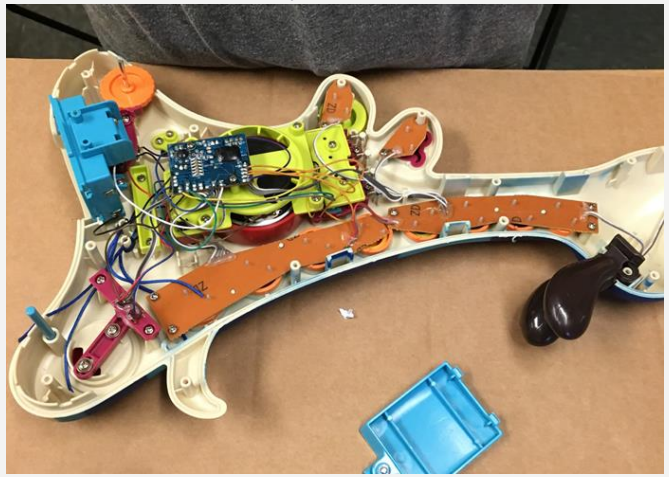
wikiHow

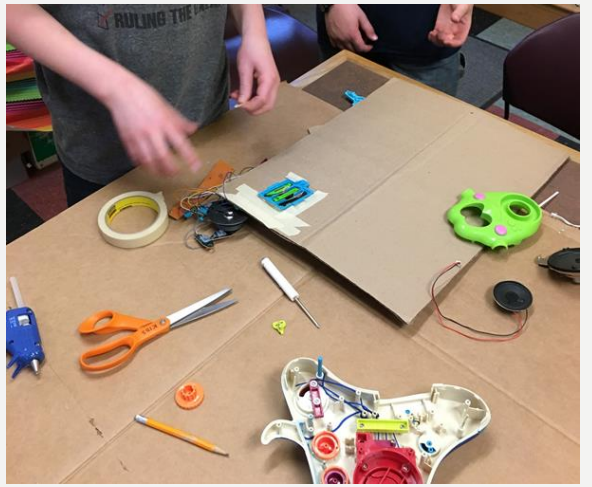
makeuseof

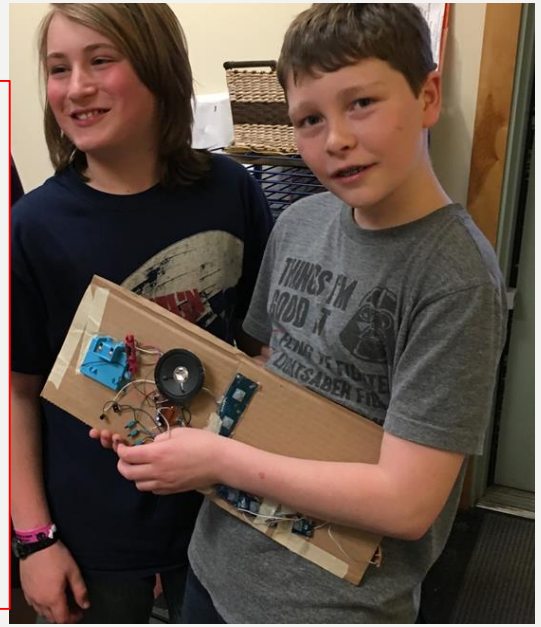
- ☼ 8 Great iPad Apps for creating stop motion videos.
- ☼ **A bit of online research can go a long way when it comes to finding "the best stop-motion app."**

Toy Hacking and

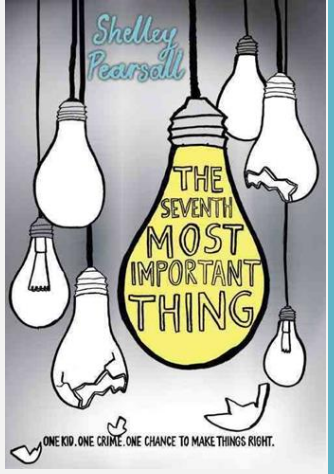








Deconstruction vs destruction
Disassemble vs. destroy
Construction = Build = Create
Innovation

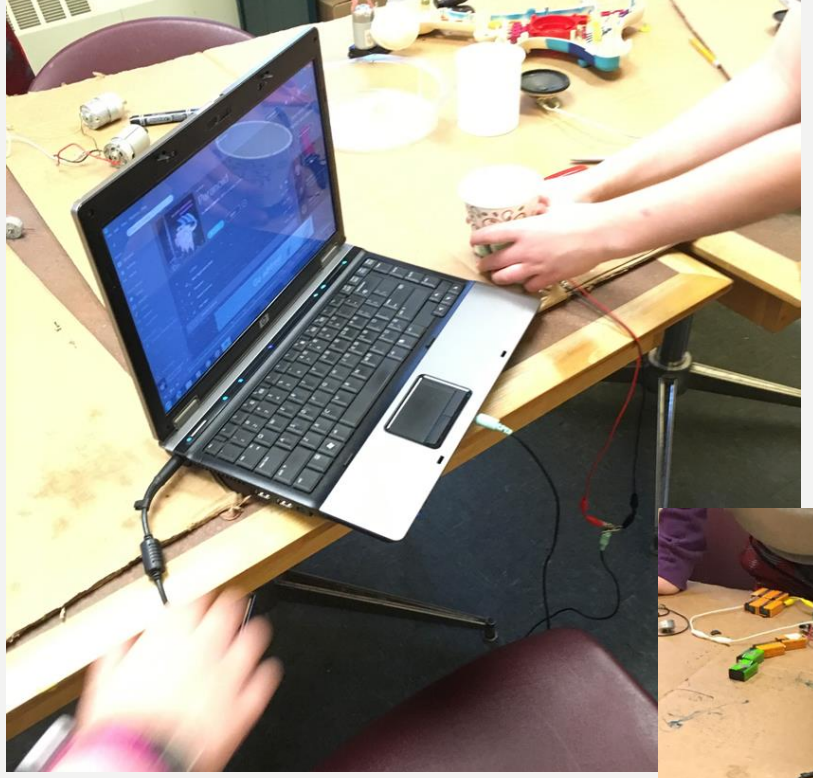


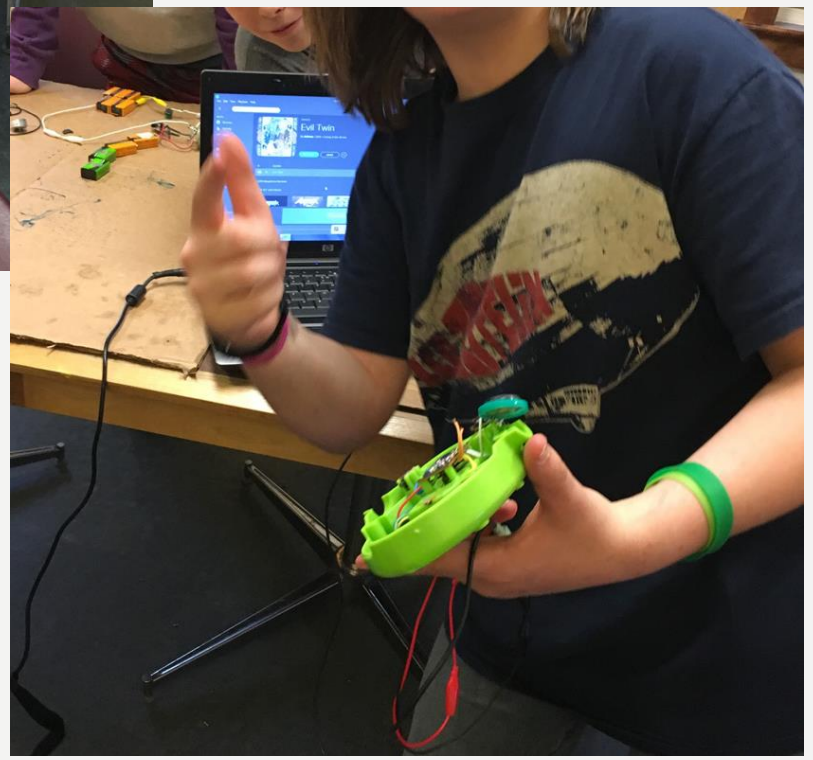
Deconstruction vs. destruction

Disassemble vs. destroy

Construction = Build = Create

Innovation





- Fail Forward – Don't be afraid of mistakes!

STEAM Playground

WRAP-UP

Resources:

Sam: sam@rockinghamlibrary.org

Bree: westfordpubliclibrary@gmail.com

Thad: drmlthad@gmail.com

Vermont Library Maker Spaces:

http://libraries.vermont.gov/node/1866

Contact Mara Siegel to become part of the Facebook page.