



STEM Programming... with no Budget



Emily Zorea
Youth Services Librarian
Brewer Public Library





Start with "Why?"



SOWING SEEDS LIBRARIAN

Providing Youth Access to Ideas through their Public Library

[Home](#) [About Me](#) [Kids' STEM Workshops](#) [Youth Library Programs](#) [Resources, Solutions, & Outreach](#)

Kids' STEM Workshop: Binary Code!

March 8, 2017 [Leave a comment](#)



We live in a binary world. Our computers, music, books, magazines, almost every form of media is digital and it all runs on the binary code. But, it is surprising how little many of us understand about the code that influences so much of our lives. For Teen Tech Week in March 2017, I wanted to do a program for tweens on coding and showing them the binary system. But, is binary code easy enough for kids to understand and write? Can we do a coding program without a computer? As we found out, the answers are yes, and yes!

[read more](#)

Facebook Twitter LinkedIn Google+ Print

[Contact Us](#) [Social Media](#)




STEM
science • technology • engineering • math

Bridge Engineering with Newspaper




STEM
science • technology • engineering • math

Bats in Flight



STEM
science • technology • engineering • math

Binary Code



STEM
science • technology • engineering • math

Float or Won't-Boat Building



A photograph showing several children's hands working on a clear plastic tray. They are using pieces of aluminum foil to create small boats. Several coins are scattered on the tray, some of which are being placed on the foil boats to test their buoyancy.

STEM
science • technology • engineering • math

Catapults



A photograph on the left shows a group of children sitting on the floor in a circle, engaged in an activity. On the right is a close-up photograph of a simple catapult made from two wooden sticks and a rubber band, with a small object attached to the end of one stick.

STEM
science • technology • engineering • math

Marble Maze-Push and Pull Physics



A photograph showing a white plate with a marble maze. The maze is constructed from colorful string (blue, orange, green, yellow) and a small orange marble is positioned at the start of the maze. The text "SowingSeedsLibrarian.com" is visible at the bottom of the image.

STEM
science • technology • engineering • math

Marshmallow Igloos



STEM
science • technology • engineering • math

Straw Towers



STEM
science • technology • engineering • math

Coding with Scratch



Create stories, games, and animations
Share with others around the world

A creative learning community with **19,334,268** projects shared

[ABOUT SCRATCH](#) | [FOR EDUCATORS](#) | [FOR PARENTS](#)

STEM
science • technology • engineering • math

Grants:



STEM
science • technology • engineering • math

Let's keep good ideas circulating!



Emily Zorea
ezorea@swls.org
SowingSeedsLibrarian.com
