

## STEAM Programs from MCPL

Here is a sampling of STEAM programming that we have done at MCPL. Feel free to contact either Julie Kinney or Taylor Weinfurter for further information.

### STEAM Programs Preschool

*Mouse Paint* Baby Painting—Read the book *Mouse Paint*. Place a white sheet of paper in a Ziploc bag. Add primary paint colors and see what colors they make when mixed together! Great for babies and toddlers with a caregiver present



*Pete the Cat* Button Math—Read *Pete the Cat and His Four Groovy Buttons*. Add buttons to Pete the Cat and practice writing numbers. Can also do small scale addition and subtraction exercises.

### STEAM Programs K-5

Dinosaur Science—dinosaur footprint puzzles, fossil making, dinosaur excavation, and dinosaur identification

Spy School—dust for fingerprints, invisible ink, code breaking

Boat Science—construct a boat out of tinfoil and see how much cargo it can hold until it sinks

Grossology—make fake snot, a sample of what blood is made of using food coloring cheerios and mini marshmallows, learn how germs travel, eyeball craft

*Angry Birds* Demolition—build structures with recyclables and demolish them with a bath towel and ball



Spaghetti Buildings—build structures using just spaghetti noodles and marshmallows

Three Little Pigs—Read the tale of *The Three Little Pigs* and variations of the tale (*The Three Ninja Pigs*, *Three Little Fish and the Big Bad Shark*). Kids build buildings and see if it can withstand the Big Bad Wolf's huffing and puffing (a hair dryer)

Ocean Science—create a wave bottle, learn how blubber works with Crisco and ice water, sink or float station, can add ocean themed books and a craft activity

Magnet Science—magnet art, extract iron from cereal, magnetic or not object bin

Bubble Science—create 3-D bubble wands, bubble snake wand, bubble gak, bubble paint art

Volcano Science—create a volcano using clay and erupt it using vinegar and baking soda

Weather Science—simulate how clouds work, make a hurricane in a pie pan, make a tornado in a bottle, and make fake snow

Earthquake Science—learn about past earthquakes, see the damage caused and learn how earthquakes cause damage

Code Academy/Scratch/Hour of Code—using online resources, tweens learn how to create a website, game or just learn what coding does



Math Card Games—reinforce math facts through card games, including cribbage

Learn about WI reptiles and amphibians—STEAM kit from the Water Science Library, UW-SP herpetology society—learn about frogs and toads and other WI reptiles, with activities, stories and real life animals (Grades pk-5)

Create a Nebula in a bottle—learn how nebulae are formed and then create one of your own

Painting with Forces—use magnetism and gravity to help you paint

Binary Baubles—learn binary code and then use it to create a bracelet

Soda Experiments—learn about variables while making cola clear and creating a soda lava lamp

Attack the Fort—learn about medieval war machines, build a catapult and attack the fort



### Crafts

Pom Pom Shooter/Marshmallow Shooter

### STEAM Programming for Teens

Banana Autopsy—learn how to remove external debris, document evidence found both externally and internally and close up the banana after you are done

Code Academy/Scratch/Hour of Code—using online resources, tweens learn how to create a website, game or just learn what coding does

LED Throwie and Jelly Costume—create an LED throwie and learn about creating circuits, use sewing skills to create a costume for the LED



MasterBlender—learn about nutrition and blend ingredients to make a delicious nutrition packed smoothie

Julie Kinney, MEd, MLIS

Young Adult Librarian

[Julie.kinney@co.marathon.wi.us](mailto:Julie.kinney@co.marathon.wi.us)

715-261-7229

Taylor Weinfurter, MLIS

Library Specialist

[Taylor.weinfurter@co.marathon.wi.us](mailto:Taylor.weinfurter@co.marathon.wi.us)

715-261-7229