

# STEAM Outreach Kits

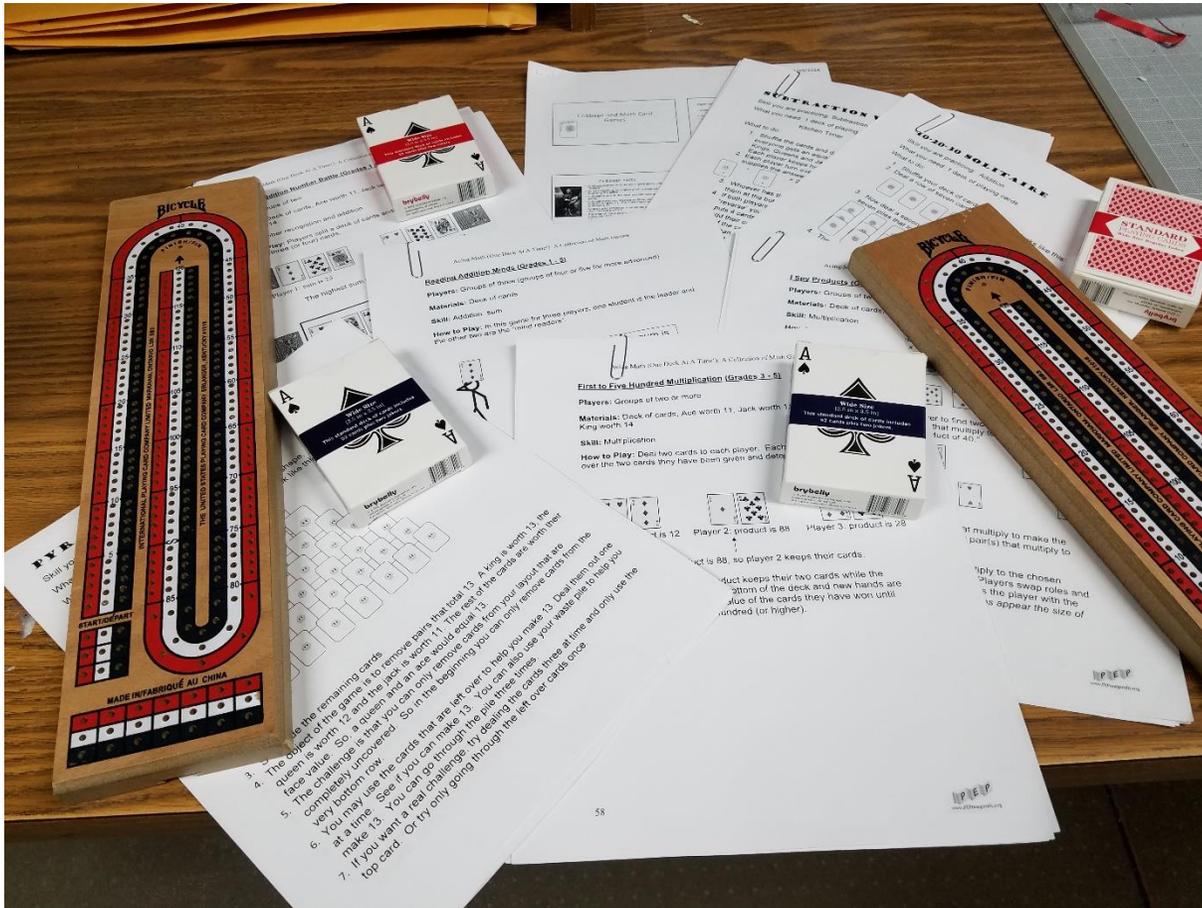
# STEAM Kits: Why do it?

- As a larger library with many smaller branches, in the past, we created “programs in a box” for use by our branches.
- We found that creating STEAM kits was helpful for our branch staff, as many of them did not have backgrounds in Science, Math or Technology and were intimidated by the thought of creating a STEAM program from scratch.

# STEAM Kits: What's Included?

- Our STEAM Kits are created with a variety of age groups in mind. For example, our “Banana Autopsy” kit is more suitable to teens, while our “Math Games” kit is perfect for upper elementary students and tweens.
- We include all the “moving parts” in each kit. Branches are responsible for providing standard art and craft supplies, such as pencils, scissors or paper.

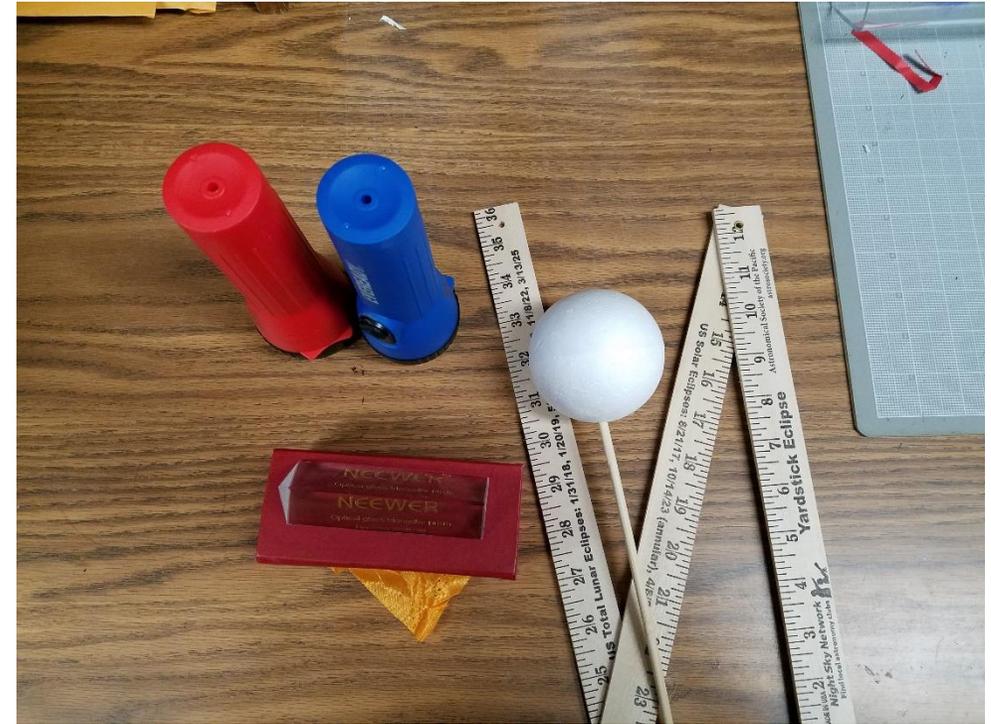
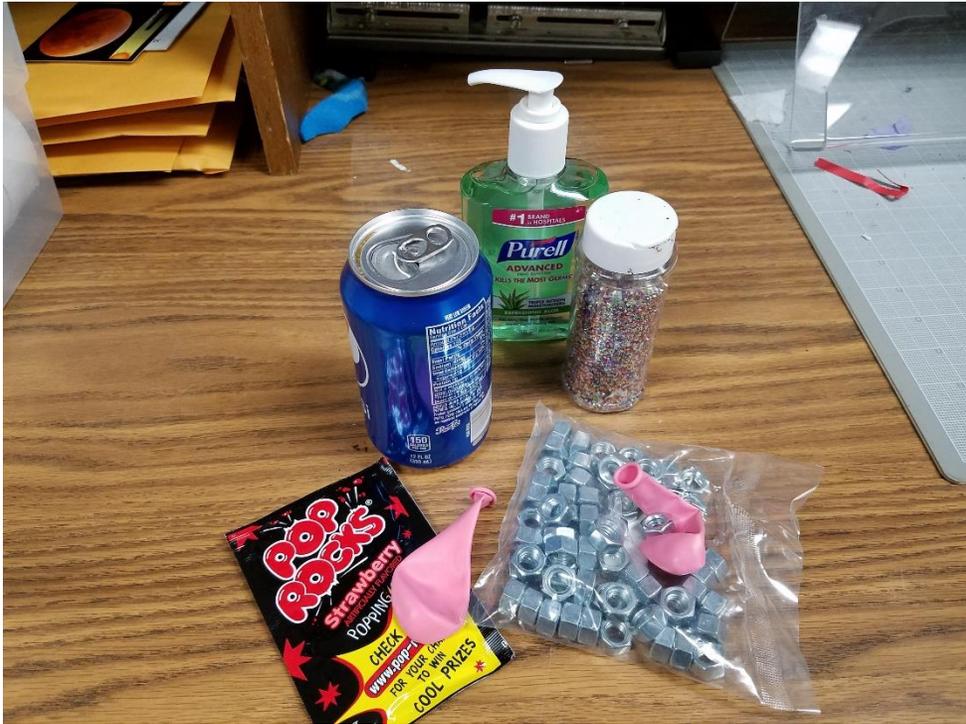
# Examples of STEAM Kits



Our “Math Games” kit has several decks of cards, three cribbage boards and sets of instructions for playing a wide variety of games related to math, including basic directions for cribbage. This kit gets double duty, as I also use it for our Family Game Nights.

All of the resources were found online and I created handouts that students can take with them.

# Example of STEAM Kit



Here are examples of some of our smaller kits. The one on the left is our “Spooky Science” kit, created for an October science experiment program. This program could be done anytime of the year. The one on the right is for our “Meet Mr. Newton” program, that shared information about Isaac Newton and had participants recreating some of his most famous experiments.

# Examples of STEAM Kits



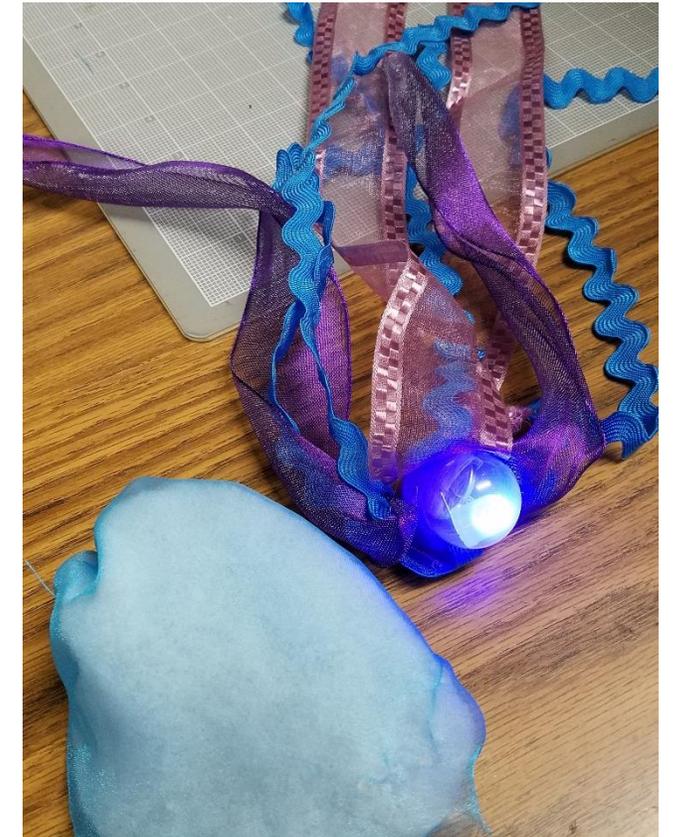
This is our Binary Baubles kit. I created this for a summer science program. Participants learned about ASCII and binary code and then used their knowledge to craft a bracelet that displayed their name in binary.

# Examples of STEAM kits

For Teen Tech Week, I expanded on the idea of the LED Throwie, by having participants craft a glowing jellyfish out of sheer material, batting and a variety of ribbons. We used hot glue guns to fasten the ribbons to a plastic vending machine capsules (available from Amazon.) This project did involve some basic sewing, but the boys who attended really enjoyed it and didn't seem to mind.



This is our LED Throwies kit. The idea was created by graffiti artists to create displays that glow or light up. I've taken this kit to schools and our local Boys and Girls Club. The basic kit teaches about creating a circuit with a LED bulb, a battery and a magnet.



# Examples of STEAM kits



These are the supplies for our Banana Autopsy. We ordered real sutures, hemostats, and dissection scissors. The tray was for collecting evidence from the “deceased.” I dressed our banana victims in little outfits made from felt, added “internal injuries” with a flavor injector and tomato sauce. In addition, some bananas were rolled in dirt, sand and glitter. I also broke stems to simulate head wounds. I invited my mom, a former emergency room nurse to show us how to cut our bananas open and stitch them up afterwards. Our bananas were victims of a bus crash on the way home from a club.

# STEAM Kits: Storage and Funding

- Our kits are stored in sealed plastic containers and labeled with tape. Usually the kit is created for an event and then the remaining materials that are specific to the kit are stored together, so they can be easily sent to a branch with our courier service.
- As the person responsible for maintaining supplies, I added a budget line in my budget for kit restocking. Again, this would only be supplies that are directly part of the kit.

# Questions?

- Feel free to send me an email if you have additional questions.
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