Mid-Michigan Library League Maker Kits for Member Libraries
Updated April 5, 2018

Title	Call No	Category	Description	Tags
Squishy Circuits	Kit 1	Programming kit	A playful hands-on way to teach and learn about electrical circuits using playdough to create electrical circuits; kit includes Recipe Card, Motor, Piezoelectric Buzzer, Mechanical Buzzer, 4 AA Battery Pack, spare batteries, 25 - LEDs in Red, Green, White, Yellow and Blue	circuit electricity STEAM
Squishy Circuits	Kit 2	Programming kit	A playful hands-on way to teach and learn about electrical circuits using playdough to create electrical circuits; kit includes Recipe Card, Motor, Piezoelectric Buzzer, Mechanical Buzzer, 4 AA Battery Pack, spare batteries, 25 - LEDs in Red, Green, White, Yellow and Blue	circuit electricity STEM
Ozobots	Kit 3	Programming kit	An Ozobot is a miniature smart robot that can follow lines or roam around freely, detect colors, and can also be programmed to play on paper or on a tablet. This kit comes with 9 Ozobot Bits, supplies and learning materials to inspire kids in STEM areas. You can program the Ozobot Bit with OzoCodes by simply drawing lines and color segments. There is also a visual block-based editor "OzoBlockly" to use on the iPad to do more advanced programming.	ozobot robot programming coding
Ozobots	Kit 9	Programming kit	An Ozobot is a miniature smart robot that can follow lines or roam around freely, detect colors, and can also be programmed to play on paper or on a tablet. This kit comes with 9 Ozobot Bits, supplies and learning materials to inspire kids in STEM areas. You can program the Ozobot Bit with OzoCodes by simply drawing lines and color segments. There is also a visual block-based editor "OzoBlockly" to use on the iPad to do more advanced programming.	ozobot robot programming coding
iPad for Ozobots	iPad Ozo	Programming kit	iPad for use with Ozobots; 4th generation, 16 GB; loaded with app for Ozobots. Screen Size: 9.7 inches, Screen Resolution: 2048 x 1536, Processor: 1 GHz Apple A6RAM: 1 GB SIMMHard Drive: 16 GB, Graphics Coprocessor: PowerVR SGX543MP2, Wireless Type: 802.11bgn, Average Battery Life (in hours): 10 hours. Item Weight: 1.4 pounds, Dimensions: 9.5 x 7.3 x 0.4 inches, Rear Webcam Resolution: 5 MP, Battery Type: Lithium Polymer (LiPo)Power Source: Battery, Voltage: 220 volts	iPad
Q-BA-MAZE	Kit 4	Programming kit	Marble maze meets construction toy; build marble run sculptures following plans in each set and on the website plans page; Create a pathway for marbles to bounce, drop and roll with the single-exit and bottom-exit cubes; big box set plus stunt kits and extra marbles. Kit includes the Big Box (2), Spin Stunt Set (2), Mega Stunt Set, and Zoom Stunt Set. *NOTE: does not use standard marbles - need smaller ones (included)	marble maze building
Photography Studio	Kit 5	Programming kit	Photography studio kit with 1 - LimoStudio 24" folding table top LED light photo Box tent, AGG1071;1- LimoStudio 16" x 16" folding table top LED light photo Box tent, AGG349; 10-In-1 Selfie Stick / GoPro Monopod & Bluetooth Remote Control Shutter - works with Go Pro Hero, iPhone, Android, Samsung Galaxy, Digital Cameras. Kit contains: Selfie Stick with Remote (Mooni) on wrist strap; Extendable Tripod Stand with level; Foldable Light Box (Small) Red, Blue, and White fabric for backgrounds; Foldable Light Box (Large) Red, Blue, and White fabric for backgrounds; Attachments to hold phone or camera; Tabletop tripod	photography light box selfie stick
Virtual Field Trip	Kit 6	Programming kit	Using an iPod Touch and Google cardboard, this kit has several virtual field trip ideas to use and encourages you to create more. Viewmaster included with kit. Riviera RC VR headset included with kit. Videos on YouTube are now designated as compatible with Google cardboard/"3D viewer"	Google cardboard viewmaster virtual reality 3D riviera RC
iPod Touch - Virtual Field Trip	iPod VFT	Programming kit	iPod Touch 16GB space gray -USA Serial No.: CCQRL11LGGK6 ; loaded with Google cardboard app for virtual field trips. Features a 4-inch retina display with Multi-Touch IPS technology, Front-Facing camera with 1.2MP photos & 720p HD video recording.	iPod touch
Sewing!	Kit 7	Programming kit	This kit includes a Brother sewing machine, thread, bobbins, scissors and pinking shears, needles, pins, embroidery hoops, embroidery floss, buttons, felt, Velcro, hand sewing project, machine sewing project, and sewing books	sewing machine Brother embroidery
Sewing!	Kit 8	Programming kit	This kit includes a Brother sewing machine, thread, bobbins, scissors and pinking shears, needles, pins, embroidery hoops, embroidery floss, Velcro, hand sewing project, machine sewing project, and sewing books	sewing machine Brother embroidery
Makedo	Kit 10	Programming kit	Makedo kit consists of plastic tools and screws to use with cardboard for creative construction. Turn cardboard boxes, paper cups, plastic bottles, lids and other household packaging into recycled artworks with the Makedo sets of connectors. Kits include plastic safe-saws for punching holes in thick cardboard or plastic and cutting it down to size; and re-clips and lock-hinges let you connect materials together quickly and easily. Makedo parts are reusable.	Makedo building construction tools
K'NEX	Kit 11	Programming kit	Includes (2) 375-piece deluxe building and (1) 52 piece model building set. These plastic rods and connectors all attach to one another in different ways, allowing kids to create a multitude of shapes, figures, and models with ease. The snap fit pieces stick together securely and can be easily reassembled into other creations.	K'NEX connectors building
littleBits	Kit 12	Programming kit	Color-coded electric components for building workable circuits. Kids can learn the basics of electronics, explore STEAM/STEM principles, or just have fun with blinking, buzzing creations. Bits snap together with magnets, so its impossible to make a mistake. The Base Kit comes 10 Bits and a step-by-step guidebook to get you started with 8 easy-to-make inventions, with hundreds more possibilities online. No soldering, wiring or programming required.	lilttleBits circuits electronics STEAM
Makey Makey	Kit 14	Programming kit	Using only alligator clips and a webpage, you can learn circuits, user interface design, and physical computing. Works with playdough, bananas, etc. Alligator Clip two objects to the Makey Makey. For example, you and a banana (or an ice cube, or a kitty cat). When you touch the banana, the computer just thinks a keyboard key is being pressed, so you can type a letter, jump in a video game, take a picture, or play some music.	circuits electronics STEAM
3Doodler Start Pen Set	Kit 15	Programming kit	3Doodler essentials kit x 2, each with 3Doodler Start Pen, 2 packs of 3Doodler Start Eco-Plastic, Micro USB Charging Cable, 3Doodler Start Activity Guide. Child-safe (8+), pen nozzle and plastic can safely be touched with no burn risks. Eco-Plastic made entirely from food-grade materials, BPA-Free, non-toxic, melts at low temperatures, plastic hardens rapidly.	

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Green Screen Studio	Kit 16	Programming kit	Complete green screen kit with lighting and backdrop support system. Chroma key green is ideal for photo backgrounds, display banners, decorations. Comes with two 45watt 5500k (equals 400watt output) daylight color fluorescent bulbs perfect for video and photography. This kit also comes with one heavy duty backdrop support system able to go up to 8ft height and 10ft wide with 4 sectional bars. Also comes with two 7ft height light stand, two ac adapter and two 33" shoot through umbrella for light diffusion. Seamless chroma key green muslin backdrop 100% cotton - machine washable.	green screen backdrop photography lighting
Nikon Digital Camera	Kit 17	Programming kit	Nikon D3300 DSLR Camera 24.2MP DX-Format CMOS Sensor; EXPEED 4 Image Processor, No Optical Low-Pass Filter; 3.0" 921k-Dot LCD Monitor Full HD 1080p Video Recording at 60 fps; Multi-CAM 1000 11-Point AF Sensor Native ISO 12800, Extended to ISO 25600; 5 fps Shooting at Full Resolution 12-Bit RAW Files; DX NIKKOR 18-55mm f/3.5-5.6G VR Lens	Nikon D3300 DSLR Camera
Bloxels	Kit 18	Programming kit	With Bloxels, you can realize your own video game ideas, build and animate original characters, develop villains, add in power-ups, and more - all done directly with the Bloxels Game Builder Starter Kit and then activated with the FREE Bloxels Builder App and your mobile device.	Coding, programming, building
Printmaking	Kit 19	Programming kit	You can use the paper and foam included in the kit or print on other surfaces using other materials. There are four rubber brayers and four inking plates included in the kit, with an initial supply of water soluble ink.	printmaking, print, brayer, ink, paint
Teknikio Activating Origami	Kit 20	Programming kit	Bring paper to life with circuits! By adding simple circuits to paper origami sculptures you can instantly animate them. Each lesson is matched to Common Core and NGSS learning standards for integrated STEM learning. Collaborate and make a giant super gadget, or work in smaller groups to make personal projects.	origami, paper folding, electonics, circuit, resistor, conductor, LED
Button Maker	Kit 21	Programming kit	2-1/4" Button Boy/Tecre Brand PHOTO & Paper Punch, Machine and 1000 parts (enough to make 1000 buttons). Model #BB225 and Graphic Punch Model #BB2405. This machine works with the custom Tecre Punch to deliver perfect photo buttons. You can also make buttons with heavy cardstock or normal thickness paper. On a standard button machine, your photo must wrap around the back of the button and can have issues with buckling of the mylar edges. The specialty size graphic punch cuts a diameter of 2.405" (standard size cuts to 2.625"). Model BB225 has an extra lip on the die that the smaller graphic fits into, as well as a lip for a normal graphic size and/or the mylar so the paper goes to the very edge of the button, but does not get wrapped around with the mylar. Model BB225 can also be used with a standard size graphic punch. Images cut to 2.625" would wrap around to the back of the button like a standard machines buttons would. However, any image cut with the BB#2405 graphic punch can only be used on the BB225 button machine. Standard size 2-1/4" parts will work with this machine. BAM sized parts will NOT work with this machine.	button making, pins, template cutter, 2 1/4", Tecre, graphic punch
MakerBot Replicator Mini+	Printer 1	3D Printer	MakerBot Replicator Mini+ Compact 3D Printer, MP05925. Ensure easy, accessible 3D printing, the MakerBot Replicator Mini+ comes with the Smart Extruder+ and all the standard features such as an on-board camera, as well as connectivity via Wi-Fi and USB cable.	MakerBot 3D printer replicator mini+
MakerBot Replicator Mini+	Printer 2	3D Printer	MakerBot Replicator Mini+ Compact 3D Printer, M50013920R1. Ensure easy, accessible 3D printing, the MakerBot Replicator Mini+ comes with the Smart Extruder+ and all the standard features such as an on-board camera, as well as connectivity via Wi-Fi and USB cable.	MakerBot 3D printer replicator mini+
Laptop for 3D printer	Laptop 1	3D Printer	Lenovo T410 laptop: Intel Core i5-520M 2.4GHz, 4GB DDR3/500GB, Screensize:14.1", DVD, Intel GMA HD, # of ports: 4, 802.11a/b/g/n, Windows 7 Pro 64-Bit Loaded with MakerBot desktop software.	Lenovo T410 laptop
Laptop for 3D printer	Laptop 2	3D Printer	Lenovo T410 laptop: Intel Core i5-520M 2.4GHz, 4GB DDR3/500GB, Screensize:14.1", DVD, Intel GMA HD, # of ports: 4, 802.11a/b/g/n, Windows 7 Pro 64-Bit Loaded with MakerBot desktop software.	Lenovo T410 laptop
3D Scanner with iPad	Scanner 1	3D Printer	Structure Sensor 3D scanner connected to iPad (4th generation, 16 GB) with Skanect software; allows user to capture, refine and share high-quality 3D scans of people and objects. Includes: Structure Sensor and matching precision iPad bracket, Lightning cable, AC adapter, and access to the Structure SDK. Skanect Pro software wirelessly streams 3D scans in real-time to your Mac or PC for rapid capture, editing, and sharing of high-quality, full-color, 3D scans. ***Needs very bright light to work the best.	Structure Sensor Skanect 3D scanner
Sekonic Light Meter	Resource 1	Resource	Sekonic Studio Deluxe II Light Meter L-398M #5020166 - originally purchased to measure the lighting in the public areas of the library for QSAC. An industry standard for still and cinematographic ambient light reading. Swiveling light receptor. Readouts in multiple still and cine scale or direct readout with optional ISO index slides. Selenium photo cell requires no battery.	Sekonic light meter
READ Design Studio DVD	Resource 2	Resource	American Library Association READ Design Studio starter pack for creating custom READ posters. Contains more than 90 posters, bookmarks, backgrounds and type files on one DVD. System Requirements: Mac or PC; 256MB of RAM / recommended 512MB; DVD/CD-ROM drive. The more RAM you have, the faster you will be able to work with the large .psd files. Functional with desktop publishing software. You must have Adobe Photoshop, Photoshop Elements, GIMP, or other compatible photo-editing software to use layered files.	Read poster design