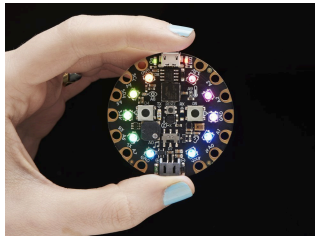
Rockland BOCES STEM Lending Library Catalog 2023-24

Request form: https://forms.gle/T7KvmfdogdUs9rYA6 **Contact**: smuthig@rboces.org

	Gr.	Qty				Gr.	Qty	
	K-8 NEW	4 class sets	**3 Doodler Start Essential Pen Set** The 3Doodler Start+ Essentials pen set combines art and design with technology in a fun and creative way. Its easy-to-use, uncomplicated technology drives engagement and comprehension of critical STEM subjects. Young learners ages 6-13 years old will thrive when they experience what it's like to use their hands and minds as they bring their ideas to life in 3D!			3-12 Blockly python	1	**Artie Max** TAKE CREATIVE CODING TO THE MAX! From simple designs to complex code creations, Artie Max translates your code into colorful works of art. With three interchangeable onboard markers, smart sensors, line detection, remote control functionality, a USB rechargeable battery, and more, Artie Max is packed with creative possibilities
	6-12 ARDUINO python	5+	**Circuit Playground Express** Start your journey with Microsoft MakeCode block-based or Javascript programming. Or, you can follow along with code.org CS Discoveries. Then, you can use the same board to try CircuitPython, with the Python interpreter running right on the Express. As you progress, you can advance to using Arduino IDE, which has full support of all the hardware down to the low level, so you can make powerful projects.			K-5 Blockly	5	**Dash by Wonder Workshop** Kids can watch their virtual coding turn into tangible learning experiences in real time as Dash, with its performance and multiple sensors, interacts with and responds to its surroundings. Accessories: Launcher (2), Sketch Pack (2)
	K-3	2	**Code & Go Robot Mouse** Introduce children to coding with this easy programmable Mouse; Mouse lights up and sounds and also features two speeds are perfect for tabletop or floor play			K-3	4	**Dot by Wonder Workshop** Small but mighty, Dot is Dash's companion, and quite a brainy little robot on its own. Dot comes with several built-in games, such as Magic Dot Ball, Dot of Music, and Light Sword. Using our free apps, Wonder and Blockly, students can create more than 100 games. Plus, with its IR-sensors, Dot can sense and even control Das

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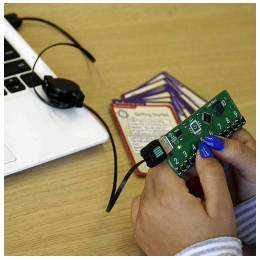	3-6	2	**Code Piano** MUSIC + CODING FOR KIDS : Girls and boys 8-12 learn how to make and modify their own electronic music with Code Piano. Free online project guides show them how computer programming works.			K-12 python	2	**Edison Educational Robot Kit for STEAM Education** Edison empowers students to become not just coders, but inventors, problem solvers and creative thinkers. More than a robot, Edison's sensors and expandable build system open up pathways for learning across maths, science, critical thinking, engineering, design thinking and more.
	4-8	1	**Crazy Circuits Makerspace Set** For use in simple circuits, programing, and sewing projects in a school or Makerspace environment. Create projects both big and small with over 160 included parts. Use the Touch and Robotics boards to follow one of our programing guides, or create your own code from scratch. Have your students create wearable technology using conductive thread. Crazy Circuits parts are compatible with LEGO™ and similar brick building systems. Crazy Circuits parts come 100% ready to go out of the box, which means no soldering or preparation required.			4+	1 class set	**Databot** One tiny cube packed with high-tech, science exploration fun. databot™ fits in the palm of your hand and collects data from 11 included sensors! Measure motion, temperature, altitude, air quality, and more. Stream data instantly from engaging experiments in science, coding, and every learning environment imaginable!
	K-8 NEW		**Kaibot** Screen-free or online multiplayer robot. KaiBot can scan and read the coding cards, then repeat the sequence on the floor or using the 'special' KaiTiles. When using with KaiTiles, the robot will identify the exact angle, x & y coordinates, and tile number. KaiBot can be paired with Kainundrum.com, allowing you to join other virtual robots online in maze races, hide n seek, escape rooms, and many more games.			K-5 NEW	2	**Kubo Starter Set** KUBO is a simple, intuitive screen-free, and plug-and-learn robot with low complexity and easy adoption for teachers. The unique, hands-on, TagTile® system provides new ways to learn coding, with broad curriculum relevance to maximize learning outcomes. Also: Kubo Coding Math Set Kubo Coding+ Set Kubo Coding++ Set

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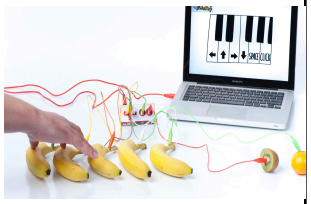
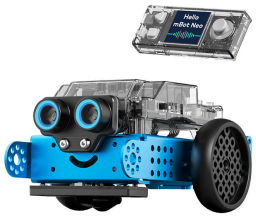
	K-5	3	**Cubelets Boundless Builder Pack** A little bit of everything. The Boundless Builder gives you access to a full set of Cubelets for the best screen-free robot building experience. It's the perfect way to introduce STEM, robotics, and computational thinking.			K-5	1	**LEGO(™) SPIKE Essential** LEGO® Education SPIKE™ Essential gets primary school students excited about hands-on STEAM learning. This playful, narrative-based learning experience is part of the LEGO Learning System and encourages students to investigate STEAM concepts while contributing to literacy, math, and social-emotional development.
 Ships in 4 to 6 weeks	3-8	1	**littleBits STEAM+ Coding Kit** Each color-coded Bit has a specific function (e.g. lights, sensors, motors, inputs, and outputs) and is modular and reusable for an infinite number of inventions. Use the littleBits modular system to create inventions that solve any problem! Empower students to let their imagination take flight by customizing their inventions with crafts and household items.			3-5	5+	**Makey Makey** Design your own controller with everyday materials like playdough or graphite pencils. Control your favorite Scratch game while you learn to code.
	6-12	4 Class sets	**Makeblock mBot Neo** Makeblock mBot Neo is a STEAM educational robot kit for young beginners to learn robotics, Scratch & Python Coding, and electronics. Equipped with Latest Technology. 4-core MCU integrates WIFI, Bluetooth modules, high-precision metal gear encoder motors, and a wealth of sensors.			3-12	6 Class sets	**Ozobot Evo** Ozobot Evo is a pocket-sized STEM coding robot with infinite possibilities. Evo comes to life with the push of a button, showing off tricks like Follow, Music, and Escape with its sensors. Teach Evo new tricks with two types of code. This robot is great for STEM, coding, and critical thinking skills.

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	K-12 NEW	1	**NAO v5** NAO is a robot with a knack for knowledge – both learning and sharing it. A programmable personal teaching assistant, NAO helps teachers bring lessons to life, making learning more fun and more concrete for students. Every lesson gets better when NAO is there to lend a hand. Interactive, intuitive, and friendly, NAO is designed to grab students' attention, win their trust, and keep them invested. NAO doesn't just have knowledge – NAO has personality, with the patience and positivity to inspire students to keep focused and keep trying.			6-12	2	**Raspberry Pi 4B Full Official Desktop Computer Starter Kit** Raspberry Pi 4B complete desktop kit includes everything you need to get started with the Raspberry Pi ecosystem - Just add a monitor. Accessories: 7" Touchscreen (2) See also: Raspberry Pi Kit Robot Arm
	NEW	6-12 1	**Phidgets Classroom Bundle** At Phidgets, our philosophy is that you don't have to be an electrical engineer in order to create sophisticated projects using motors, sensors and other electronics. You simply need to know how to code. Phidgets are building-blocks for sensing and control using a computer, tablet, or phone. Phidgets enable your software application to interact with the physical world.			6-12	2	**Raspberry pi-top** pi-top provides educators with all the tools needed to make teaching and learning standards-based Computer Science easy and engaging. See also: Raspberry Pi Kit Robot Arm
	NEW	1	**Squishy Circuits** Squishy Circuits uses conductive and insulating play dough to teach the basics of electrical circuits, a perfect blend of play and learning! Our play dough kits, projects, and recipes teach problem solving and engineering concepts and inspire creativity and independent thinking.			3-12	3 class sets	**Sphero BOLT** BOLT's programmable sensors include a compass, light sensor, gyroscope, accelerometer, motor encoders, and infrared communications. Because of these advanced sensors, manually aiming your Sphero is now a thing of the past. BOLT's built-in compass lets you automatically aim and drive your educational robot, plus you can program BOLT to follow real-world directions on a map. You can also code with the ambient light sensor that can tell if it's light or dark, allowing for programming conditions based on brightness.

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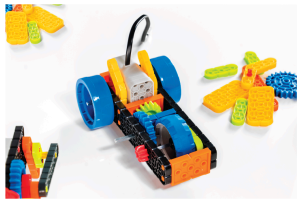
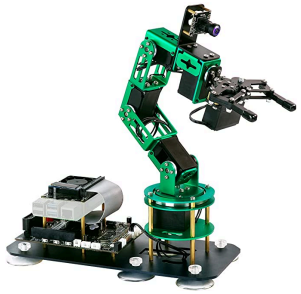
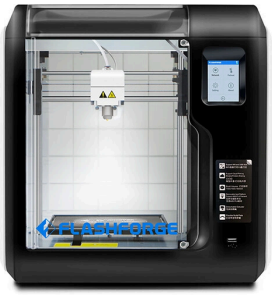
	K-3	4 class sets	**Sphero Indi** The Indi learning robot is designed to introduce early learners to the fundamentals of computational thinking, STEAM, and computer science principles while encouraging open-ended, imaginative play-based learning with real-life scenarios as students build custom mazes and solve puzzles.			K-2	1	**Vex 123** No Devices? No Problem! The 123 robot is programmable without a computer. Using the VEX Coder and physical cards, you can learn real programming away from screens. The 123 robot can learn sequences by simple touch. Control movements and sounds to learn basic logic and problem solving.
	6-8	1	**Vex GO** An affordable construction system that teaches the fundamentals of STEM through fun, hands-on activities that help young students perceive coding and engineering in a fun and positive way!			6-12	2	**Vex IQ** VEX IQ is a snap-together robotics system, making it fast and easy to build an endless variety of robots. Watch code come alive on a physical robot and apply key STEM skills.
	6-12	1	**Yahboom Robotic Arm Raspberry Pi Robot Kit** Artificial Intelligence Robotic Arm with Camera: Robotic arm comes with camera to achieve FPV video transmission. The robotic arm can recognize colors, specific gestures and faces, respond to the recognized gestures and track the recognized faces, track the corresponding colors, and grab the corresponding designated color objects.			4-12	1	**FlashForge Adventurer 3 3D Printer (Version 2)** Reducing the complexities and maximizing the fun of 3D printing, version 2 of the FlashForge Adventurer 3 3D Printer is packed with convenient, automated, and intuitive features. Prints are made to come out even, as the heated build plate your 3D print rests on has already been leveled at the factory, only requiring minimal calibration. When the print is finished, the flexibility of the plate lets you more easily pop off your finished print.

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					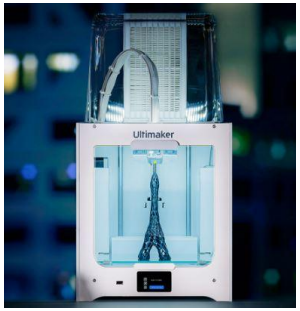	4-12	2	**Ultimaker 2+ Connect**