

ADST Resources:

Bee-bots:



Bee-bots are little robots designed for use by young children. These easy-to-operate and friendly robots are a perfect tool for teaching directionality, sequencing, estimation, problem-solving and just having fun! Use the arrow keys to code Bee-bot to move and turn. Then press GO to send the robot on its way!

<https://www.bee-bot.us>

We have 6 Bee-bots available.

Bloxels:



You don't need to understand fancy code and own super expensive computer programs to make video games anymore. All it takes is your Bloxels Gameboard, some blocks and a mobile device and, of course, your imagination to take the guesswork out of building your own video games!

<http://home.bloxelsbuilder.com>

We have 20 Bloxel sets available.

Cubelets:



You don't need to know how to code or wire to construct robots with Cubelets. Snap the robot blocks together and the magnetic faces do the rest. Every unique arrangement is a new robot with novel behaviors emerging from the construction. Invention made easy.

<https://www.modrobotics.com/cubelets/>

We have 4 kits of Cubelets available.

littleBits:



Getting started inventing with electronics has never been easier. littleBits is the perfect way to unleash creativity in kids and younger makers, empowering them to create inventions of every shape and size, with no prior electronics experience. Your kids (and you!) can learn the basics of electronics, explore STEAM/STEM principles, form the foundations of critical thinking, or just have fun with blinking, buzzing creations. Bits snap together with magnets, so it's impossible to make a mistake.

<https://littlebits.com/education>

We have 2 sets of littleBits available.

Littlecodr Coding Game

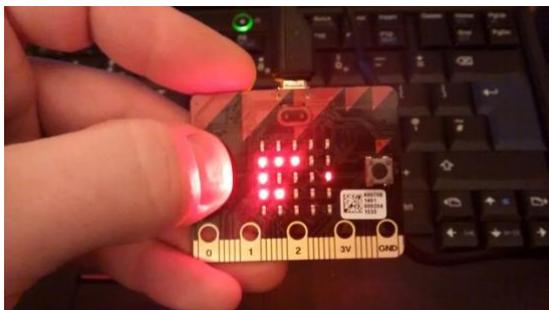


Littlecodr is a crazy fun game that helps kids learn the basics of logic and coding. Writing code means creating instructions to be executed, like getting a computer to display a website or teaching a robot to throw a ball. Littlecodr allows kids to play with these concepts, even before they can read and write.

<http://littlecodr.com/#littlecodr>

We have 2 available.

Micro:bit



Designed by the BBC as part of its Make it Digital initiative, the micro:bit is one of the world's smallest programmable computers.

<https://microbit.org>

We have 30 micro:bits, 2 starter kits and numerous additions (micro:move mini, Game Zap 64, speakers, sensors, and senso drivers).

Osmo:



Osmo enables the iPad and iPhone to merge **the power of physical play with the digital advantages of real-time feedback**. Playing beyond the screen invites students to collaborate on tables or floors while manipulating tangible game pieces such as number tiles, letter tiles, and coding blocks.

<https://www.playosmo.com/en-ca/schools/>

We have 4 Osmo sets for Words and Tangrams. We also have 2 Osmo Coding Kits.

Ozobots:



Ozobot is a little toy robot that blends the physical and digital worlds — and teaches kids programming. It is very basic programming, as you simply train the robots to follow patterns on the surfaces that they roll over. They look a little like Pac-Man ghosts, with domes for heads. Ozobot can identify lines, colors, and codes on

both digital surfaces, such as an iPad, and physical surfaces, such as paper.

<https://ozobot.com/stem-education>

We have 4 sets of 12 Ozobots.

Snap Circuits:



Have fun learning all about electronics! Award-winning Electronic Snap Circuits feature easy to identify colour coded parts that make building a snap! Snap Circuits contains over 60 parts and includes instructions for over 300 projects, including: an AM radio, a burglar alarm, an amplified musical bell, a fan, and much more. Enjoy hours of educational fun while learning about electronics!

Video on Snap Circuits: <https://youtu.be/ZGtbarWaWqs>

We have 4 Snap Circuit sets

Spheros:

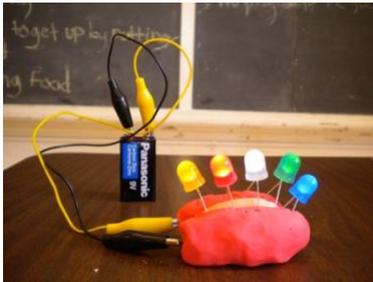


Spheros aren't just fun; they are also an excellent teaching tool. Students have begun using them to learn everything from geometry to genetics. They can code them, too, to take a first step into computer programming.

<https://www.sphero.com/education>

We have 22 Spheros and 4 Mini Spheros available. You will need an iPad for each Sphero with the app for the Sphero to work.

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.

<https://squishycircuits.com>

We have 1 Squishy Circuit kit.