



Coding Resources

Arduino Starter Kit

Arduino is an open-source electronics platform based on easy-to-use hardware and software to create interactive projects.



Arduino Tutorials –

<https://www.arduino.cc/en/Tutorial/HomePage>



Arduino Projects Ideas –

<http://playground.arduino.cc/Projects/Ideas>



Learn Arduino –

<https://learn.adafruit.com/category/learn-arduino>



Arduino Projects on Instructables –

<http://www.instructables.com/id/Arduino-Projects>



Coding Resources

Kano Computer Kit

Kano is a computer anyone can make. The kit includes a Raspberry Pi 3, plug-and-play components, a step-by-step storyboard, and dozens of hours of coding challenges.



Creative Computing – The Kano Curriculum
<https://goo.gl/QX2oXu>



Kano Projects –
<https://world.kano.me/projects>



Kano Lesson Plans –
<https://kano.me/educators/lesson-plans>



Coding Resources

micro:bit

micro:bit is a tiny, programmable computer, designed to make learning and teaching easy and fun!



Micro:bit Safety and QuickStart guides –
<http://microbit.org/assets/documents/microbit-safety-guide-090617.pdf>



Let's Code with Micro:bit –
<http://microbit.org/code>



Micro:bit Ideas –
<http://microbit.org/ideas>



Coding Resources

Microduino mCookie Advanced Kit

mCookie is a DIY, easily connectable, modular kit. Students can use the Arduino IDE, Scratch, or Mixly to bring your ideas to life!



Microduino Idea Lab –
<https://idealab.microduinoinc.com>



Microduino Wiki –
<http://wiki.microduinoinc.com>



Microduino IDE Download –
<http://microduinoinc.com/download>



Coding Resources

Osmo Genius Kit & Osmo Coding Awbie Game

Osmo fosters creativity and problem solving skills through hands-on play. The Genius Kit includes Numbers, Words, Tangram, Newton, and Masterpiece.



Osmo Overview K-6 –

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



Osmo Teacher Guide –

https://www.playosmo.com/static/downloads/teachers_guide.pdf



Coding Resources

Ozobot 2.0 Bit

Ozobot lets you learn to code with Ozocode color codes using the Bit optical sensors. Advance to the OzoBlockly editor to learn block-based programming.



Ozobot Getting Started –
<http://ozobot.com/stem-education/education-getting-started>



Ozobot Lessons –
<http://portal.ozobot.com/lessons>



OzoBlockly –
<http://ozoblockly.com>



Coding Resources

Piper Computer Kit

Piper is a DIY computer kit that helps kids learn engineering, demystify technology, and develop confidence hands-on through building and assembling their own computer.



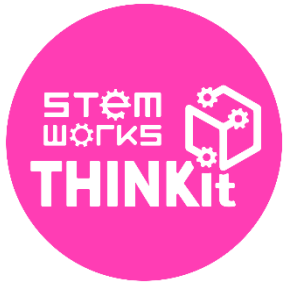
Piper for Educators –

<https://www.buildpiper.com/pages/educators>



Piper Unit Plan –

<https://goo.gl/TKUJ2S>



Coding Resources

Raspberry Pi 3 Kit

The Raspberry Pi is a tiny and affordable computer that you can use to learn programming through fun, practical projects.



Raspberry Pi Education –
<https://www.raspberrypi.org/education>



Raspberry Pi Resources –
<https://www.raspberrypi.org/resources>



The MagPi Magazine –
<https://www.raspberrypi.org/education/magpi-educators-edition>



Coding Resources

Sphero SPRK+

Sphero SPRK+ is designed to inspire curiosity, creativity, and invention through connected play and coding. You can easily learn programming, complete hands-on activities and share your creations with the community!



Sphero Education –
<http://www.sphero.com/education>



Sphero EDU Activities –
<https://edu.sphero.com/cwists/category>