

Credits and contact information are at the bottom of this sheet.

Coding and STEAM Tools for Kids, Teachers, Parents

Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Middle School	High School
Apps							
Move the Turtle http://movetheturtle.com/							
Daisy the Dinosaur https://itunes.apple.com/us/app/daisy-the-dinosaur/id490514278?mt=8							
Hopscotch https://www.gethopscotch.com/							
A.L.E.X. https://itunes.apple.com/us/app/a.l.e.x./id597040772?mt=8							
Cargo-Bot http://twolivesleft.com/CargoBot/							
Code with Bolt http://www.codewithbolt.com/							
Alice http://www.alice.org/							
Bitsbox https://bitsbox.com/							
Codeletics http://www.codeletics.com/							
Gamestar Mechanic http://gamestarmechanic.com/							
Minecraft EDU http://education.minecraft.net/							
App Inventor http://www.appinventor.org/							
Codea http://twolivesleft.com/Codea/							
Swift Playgrounds http://www.apple.com/swift/playgrounds/							
Swiftly https://swiftly-app.com							
Pythonista https://itunes.apple.com/us/app/pythonista-3/id1085978097?mt=8							
Touch Lua https://itunes.apple.com/us/app/touch-lua/id525273327?mt=8							
Solo Learn (Java, JavaScript, Python, PHP, more https://sololearn.com)							
Board, Card, and Puzzle Games (Online and Tabletop)							
Rush Hour http://www.thinkfun.com/play-online/rush-hour/							
Code Master http://www.thinkfun.com/products/code-master/							
Robot Turtles http://www.robotturtles.com/							
Botlogic http://botlogic.us/							
Lightbot Level 1 https://lightbot.com/							
Lightbot Levels 1-2							
Lightbot All Levels							
Code Monkey Island http://codemonkeyplanet.com/							
Bloxels http://www.bloxelsbuilder.com/							
Bits & Bytes http://www.bitsandbytes.cards/							
littleCodr http://littlecodr.com/							
Giggle Chips http://www.gigglechips.co/							
Notable Women in Computing http://www.notabletechnicalwomen.org/							
Coding Farmers http://www.mathandcoding.org/codingfarmers.html							
Coding is Good (Python card game) http://www.mathandcoding.org/codingisgood.html							
The Foos http://thefoos.com/							
Tynker https://www.tynker.com/							

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	Run Marco! http://marco.allcancode.com/						
	Erase All Kittens https://eraseallkittens.com/						
					Code Warriors http://www.codewarriorsgame.com/		

Block/Visual Languages

	Turtle Art http://turtleart.org/						
	Turtle Academy http://www.turtleacademy.com/						
	Scratch Jr. https://www.scratchjr.org/						
		Scratch https://scratch.mit.edu/					
		Blockly https://developers.google.com/blockly/					
		Snap http://snap.berkeley.edu/					
		Stencyl http://stencyl.com/					
		mblock http://www.mblock.cc/					
		Ardublock http://blog.ardublock.com/					
		CREATE Lab Visual Programmer http://www.hummingbirdkit.com/learning/using-visual-programmer					

Circuit Board Computers

				Arduino https://www.arduino.cc/			
				Beagle Board https://beagleboard.org/			
				Raspberry Pi https://www.raspberrypi.org/			
				micro:bit https://www.microbit.co.uk/			
				CHIP https://nextthing.co/			
				cubit http://cubit.cc/			
				Intel Edison https://www-ssl.intel.com/content/www/us/en/do-it-yourself/edison.html			
				Onion Omega https://onion.io/product/omega/			
				Curiosity Development Board http://www.microchip.com/promo/curiosity			
				Minnow Board http://www.minnowboard.org/			
				Table of Boards http://makezine.com/comparison/boards/			

Circuit Board Kits (Plug and Play)

	LightUp http://www.lightup.io/						
	littleBits http://littlebits.cc/						
	Makey Makey http://makeymakey.com/						
	SAM Labs https://www.samlabs.com/						
	Snap Circuits http://www.snapcircuits.net/						
	Microduino https://www.microduino.cc/						
	Kano https://kano.me						
	Piper https://playpiper.com/						

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Circuits, Electronics, Jewelry, and Fabrics								
	Chibitronics http://chibitronics.com							
			Jewelbots http://jewelbots.com/ (friendship bracelet teaches coding)					
Curriculum								
Kodable https://www.kodable.com/								
K12CS https://k12cs.org/								
CSTA https://csta.acm.org/Curriculum/sub/CurrResources.html								
Code.org https://code.org/								
Computing at School https://www.computingschool.org.uk/								
ISTE http://www.iste.org/standards/tools-resources/essential-conditions/curriculum-framework								
C-STEM http://c-stem.ucdavis.edu/curriculum/								
Creative Coding through Games and Apps (Microsoft) https://mva.microsoft.com/en-US/training-courses/creative-coding-through-games-and-apps-12533								
Code for Life https://www.codeforlife.education/								
		Cambridge GCSE Computing Online http://www.cambridgegcsecomputing.org/						
Common Sense Media Digital Citizenship https://www.common Sense Media.org/educators/scope-and-sequence								
Computer Science Unplugged http://csunplugged.org/								
Barefoot Computing http://barefootcas.org.uk/								
Robots								
Bee-Bot https://www.bee-bot.us/								
Blue-Bot https://www.bee-bot.us/bluebot.html								
Code-a-pillar http://fisher-price.com/en_US/brands/think-and-learn/index.html								
Cubetto https://www.primotoys.com/								
Coding by Osmo https://www.playosmo.com/en/coding/								
Cubelets http://www.modrobotics.com/cubelets/								
Puzzlets https://www.digitaldreamlabs.com/puzzlets/								
Vortex Robot http://www.drobot.com/vortex/								
Dash and Dot https://www.makewonder.com/								
Finch http://www.finchrobot.com/								
Hummingbird http://hummingbirdkit.com								
Kibo http://kinderlabrobotics.com/								
	Sparki http://arcbotics.com/products/sparki/							
	Thymio https://www.thymio.org/							
		Tickle https://tickleapp.com/						
	Sphero http://www.sphero.com/							
		Little Robot Friends http://www.littlerobotfriends.com/						
		mBot http://learn.makeblock.cc/mbot/						
		Ozo http://ozobot.com/						

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		UB Tech http://www.ubtrobot.com/					
				Meccanoid http://www.meccano.com/meccanoid-about			
				LEGO Mindstorms http://www.lego.com/en-us/mindstorms/products/mindstorms-ev3-31313			

Text Programming Languages

				Try Ruby http://tryruby.org/			
				Python Shell/Emulator https://www.python.org/shell/			
				Swift Shell/Emulator http://swift-lang.org/tryswift/			

Programming Clubs

			Black Girls Code http://www.blackgirlscode.com/				
			Coder Dojo https://coderdojo.com/				
			Girls Who Code https://girlswhocode.com/				
			Google CS First https://www.cs-first.com/				
			STEM Scouts https://stemscouts.org				

Online Courses (Computer Science, Programming)

			Codecademy https://www.codecademy.com/				
						Code HS https://codehs.com/	
			Khan Academy https://www.khanacademy.org/computing				

Adapted and expanded from Nikolas Chatzopoulos' chart: <https://twitter.com/chatzopoulosn/status/742509403258130433>

This sheet created by Tim Slavin, publisher of Kids, Code, and Computer Science Magazine <https://KidsCodeCS.com> using links/resources at that site

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Got changes? Corrections? Please contact Tim Slavin at hello@KidsCodeCS.com. Thank you!