

Complete STEAM gift guide at beanzmag.com/steam-gift-guide-2022

The STEAM 2022 Holiday Gift Guide

Featured Gifts

Spintronics and Turing Tumble

Spintronics is a unique game that teaches the basics of electrical flow with a simple board that lets you build circuits. *Turing Tumble* uses marbles to teach how computers work.

<https://upperstory.com/spintronics/>
<https://upperstory.com/turingtumble/>



Jewelbots

An unusual but really neat idea for kids who want to create friendship bracelets with functionality they can code. <https://jewelbots.com/>



Code the Classics Book

Into retro games? Want to code? The Raspberry Pi Foundation has published a book full of 1970s and 1980s video games, interviews with their creators, and instructions on how to code games inspired by Pong and games from that era. <https://store.rpi-press.cc/products/code-the-classics>

Bitsbox

Learn to code by making games on the [Bitsbox.com](https://bitsbox.com) website then play them on a phone or tablet. The games are quite clever with fun bright graphics. It's easy for kids to learn and become comfortable with code. A new box arrives each month. Ages 5 and up. <https://bitsbox.com/>



Piper

This build-it-yourself computer has evolved into a neat set of electronics projects. *Piper* makes it easy to build a computer. <https://www.playpiper.com/>



Robot Turtles

Robot Turtles is a great board game with some neat extensions like an online community where you can create your own game boards. <https://www.thinkfun.com/robot-turtles/>



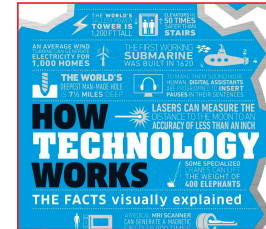
Erase All Kittens!

E.A.K. offers a gentle introduction to professional coding languages, enabling children to play and learn on their own, or alongside parents and teachers. *Mario*-style gameplay makes learning these languages super fun for beginners aged 8+. <https://eraseallkittens.com/>



Little Robot Friends

These small fun robots are very friendly and accessible, an easy way to get kids interested in coding and electronics. Each has their own personality. These cute little robots respond to light, touch, voice, and infrared inputs. They also blink, beep, and buzz. <https://littlerobotfriends.com/>



How Technology Works

This amazing book from Dorling Kindersley Publishing explains visually how almost every human technology actually works, alongside interesting facts. It's the perfect book for anyone who likes to take things apart. <https://www.dk.com/us/book/9781465479648-how-technology-works/>

Google Cardboard

Choose from a number of very affordable cardboard headsets, assemble, then slide in a smartphone and use VR apps. As amazing as more expensive options! <https://vr.google.com/cardboard/>



Secret Decoder Deluxe Activity Set

This set has three workbooks to work through and crack the mysteries. Screen-free fun! <https://www.melissaanddoug.com/secret-decoder-deluxe-activity-set---on-the-go/5238.html>

Cracking Codes with Python

This book combines two fun experiences: coding with Python, and secret codes. All kinds of ciphers are covered with details about how to use Python to break the ciphers. It's a great source book for anyone interested in solving puzzles with code. <https://nostarch.com/crackingcodes>



Indi

Designed for PreK to 2nd grade kids, this new *Sphero* robot teaches STEM skills without the need for a computer screen. Cards are used to direct the robot. <https://sphero.com/pages/sphero-indi>

Yes, I'm back. Still on the shelf. Let's get with the program! See what I did there?



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