

CIRCUIT SCRIBE

Circuit Scribe uses a special conductive ink and paper to let kids draw their own circuits. It is currently in the final design stages for three new kits: DIY Drone, DIY Calculator, and DIY Lite Wings. After Kickstarter funding for these kits, the prototypes will become learning tools for kids to doodle and design.

The **DIY Drone** is designed for kids ages 13 and up and lets kids create a four-propeller drone using cardboard as the body. This kit can be reconfigured to change the drone's size, or turned into a flying paper airplane.

The **DIY Calculator** features a patent-pending, thin-printed circuit board (PCB) clip-on design that allows kids to remake and alter the project. This kit is enabled by capacitive touch sensors and lets kids draw a working calculator in their notebooks, journals, or planner. The DIY Calculator is designed for kids ages 8 and up.

The **Circuit Scribe Pen** is the specially designed pen at the core of every Circuit Scribe project. The pen is filled with nontoxic silver ink that makes it easy to create circuits. Circuit Scribe Pens can write on all surfaces that typical rollerball pens can write on, transforming them into working circuits.

New this year, Sketch is a platform built for kids, teens, and adults to upload their work and inspire fellow creators. Sketch.circuitscribe.com features an AP Physics Intro to Circuits lesson plan that uses a Digital Multimeter and LEDs. An easier lesson plan, Sound the Alarm, is designed for students at the first grade level. Kids can learn how specific circuits work, and follow step-by-step instructions to create their own projects, including Stained Glass House, Light Bulb Card, and Spooky Ghost.



SPECIALTY TOYS & GIFTS



SCIENCE TOYS THAT SPARK FUN

OVER THE COURSE OF THE PAST FEW YEARS, "STEM" (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH) HAS BECOME A BUZZWORD within the toy industry. It's not enough for a toy to simply keep kids entertained during playtime. With the big push that STEM has had in schools and the anticipated need for these skills in our future workforce, parents want toys that will promote these concepts. That's why, when parents pace the aisles of a toy store, they look for toys that will stimulate minds and expand curiosity.

Toy manufacturers continue to stay on top of this movement, and find new ways to incorporate STEM principles into their product lines. This year specifically, toys that teach the basics of circuit science are in the spotlight. These toys let kids use wires to make sequences, create their own electronic games, and draw unique circuits.

With cutting-edge technology used in kits and experiments, kids have everything they need to challenge their minds and take their curiosity to new levels. As they connect wires and create circuits, they'll learn about basic principles of electrons and how they travel from one source to another. Concepts that often present a challenge for kids will be easier to understand through play.

Of course, there is still a demand for traditional science toys and kits, and toy manufacturers constantly find ways to refresh basic science sets. For instance, last year Thames & Kosmos launched science kits that feature Barbie and her friends, and this year expanded its Barbie offerings into an entire line. Alex Brands' Ideal line continues to approach science in fun and exciting ways. From circuits to chemical reactions and everything in between, check out some of our favorite new science toys below.



CIRCUIT SCRIBE's Maker Kit comes with a circuit-drawing pen, 11 modules, a 9V battery, and other accessories that take kids' circuit sketches to the next level. This kit helps kids build an understanding of inputs, outputs, and signal processing in their drawn circuits,

and explore topics such as light sensing, timed circuits, piezoelectric materials, and more.

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