

Review of Circuit Scribe Electronics Kits and Giveaway for a Maker Kit – #STEM

Circuit Scribe Kits provide a great introduction to electronics. They teach kids about the basics of electronics whilst having them build a series of projects, which makes learning fun! There is no need to learn to solder when creating the projects- you simply use the included conductive silver ink pen to draw the wires and make connections. I recently got the opportunity to test out the CircuitScribe Ultimate Kit and found that it was a great addition to our Homeschool curriculum.

Review

The Circuit Scribe kits consist of a variety of electronic components as a series of magnetic modules, a workbook, a steel sheet, a circuit stencil and a conductive silver ink pen. The Ultimate Kit contains over 30 components, plus instructions for lots of projects.

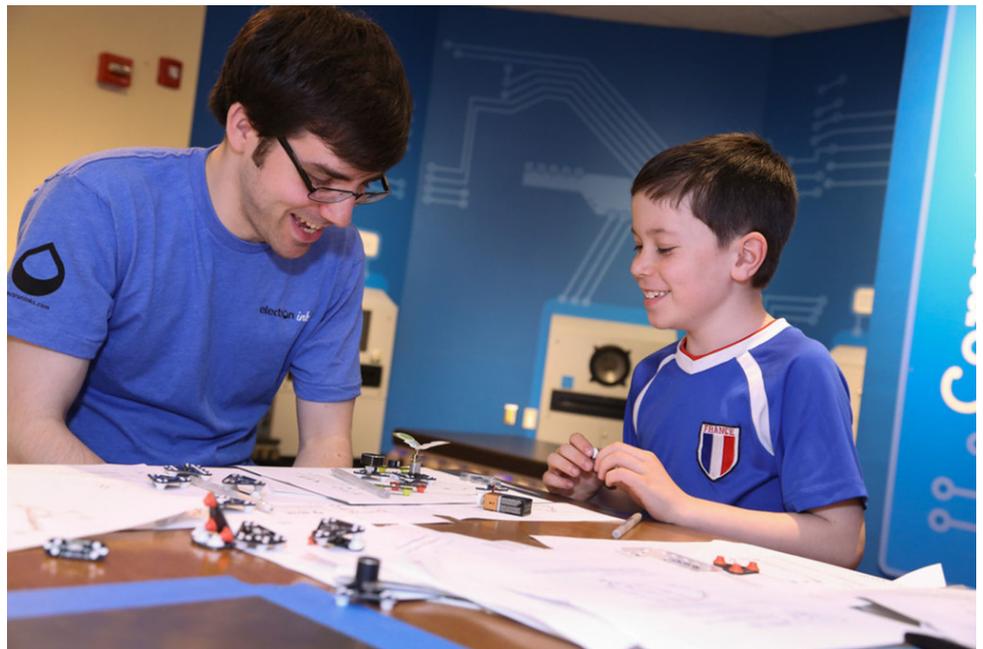
The Modules are color coded: Input e.g. switch =red / Output e.g. LED =yellow / Connection e.g. transistor =grey / Power e.g. battery =blue.

Workbook

The Workbook contains lots of projects and they are color-coded so that you know at a glance which projects are compatible with the Basic or Maker or Ultimate kits. All projects can be completed using the Ultimate kit, most can be done with the Maker kit but the Basic kit can do less.

The steel sheet is used to place between pages of the workbook and acts as a magnetic backdrop for the projects. It also acts as a glossary of symbols and abbreviations used for describing electronic circuits and components.

For each project the student learns the theory behind the project, sees a circuit diagram for the project, then draws in the indicated wires using the silver ink pen. They are encouraged to use some artistic flare rather than just tracing along the lines. Once they have drawn the required wires they can place the modules in the indicated spots and they will magnetically stick to the steel sheet through the paper connecting to the silver ink wires as they do so. It takes a little practice to draw the wires so



that they will conduct electricity well- you need to make the lines nice and thick without any breaks, but even if you don't get them perfect the first time you can just add more ink to reinforce any areas of weakness.

As they work through the projects students learn the characteristics of different types of electrical components, how to create and read circuit diagrams. As the students learn about the components they are encouraged to be creative and design their own circuits. The Ultimate kit is even contains connectors that allow you to use it with Arduino and Raspberry Pi (not included), and has a sample Arduino project.

Summary

Not only do Circuit Scribe kits provide projects to do, but they also teach the basics of electronics. Students learn about electrical components such as resistors, potentiometers and switches, plus they learn to draw circuit diagrams as well as build projects. This is a great kit for homeschooling families as it has students learning about physics, electricity and electronics in a hands on way. It is also a fun introduction to electronics for ages 10- adult – I know I learned from using it! Highly recommended #STEM gift.



Thanks to Circuit Scribe One lucky reader of The iMums can win a Circuit Scribe kit of their own- we have a Maker Kit to give away (RRP \$79.99) The Maker Kit contains 17 electronic components and instructions for a variety of projects.

Available from CircuitScribe.com, Amazon and other retailers for US\$79.99,

Source:



<http://www.theimum.com/2016/12/giveaway-for-a-maker-kit-from-circuitscribe-stem-79-99-value/>