# The Complete Maker Cart

This Maker Cart has been carefully developed to allow you to expose students to a comprehensive learning experience through making. All tools, electronics and supplies are unpacked, fully assembled and ready for innovation to unfold. See an item that is missing? Let us know!

The products and their descriptions below do not provide enough detail to truly communicate the inspiration within. Simply add student innovation and you will be making something brilliant.

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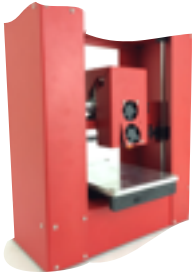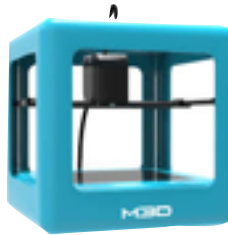
Printrbot 3D Printer
This fully assembled printer produces high-quality prints. Students can design builds in any popular 3D design software.
www.printrbot.com

Micro M3D Printer
Your cart will be supplied with either the Printrbot Play or this miniature marvel. Small enough for a student to have on their desks, you will be amazed at how detailed of a finished product it creates.
www.printm3d.com

MakeyMakey
Known as the inventors kit for everyone, students who are excited about robots but aren't sure where to begin will be gravitating to this simple platform. The MakeyMakey turns any conductive material into an input device.
www.makeymakey.com

Arduino Micro Controller
The most versatile micro controller on the market. Using this platform, students will be able to master text-based code. With the Arduino, young robotics enthusiasts will focus on concepts including input, reaction and output.
www.arduino.cc

Hummingbird Kit
Students love how easy it is to assemble their own robots. With a little cardboard and tape, robots can spring to life complete with sensing and responsive actions. This robotics kit is a great companion to any student learning SCRATCH.
www.hummingbirdkit.com

littleBits
Revolutionizing classroom creation, littleBits are as easy to use as LEGO. The magnetic, electronic components include as many sensors and outputs as any other platform, but in a colour coded legend that is easy to understand. These will be a favourite.
www.littlebits.cc

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HP Stream 11" Touch Screen PC
Many items on this cart requires software to support their function. This laptop has yet to be powered-up, meaning you can customize the contents to best suit your students and your maker goals. There is enough memory for your students to create a complex Arduino sketch, or to build their next robot.
**www.microsoft.com**
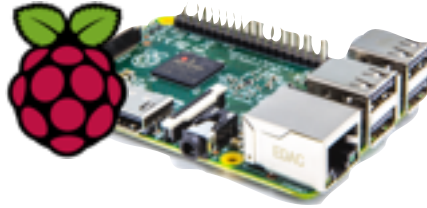
Raspberry Pi Starter Kit
Many people have heard about this miniature computing system that can be held in the palm of their hand. It has become the elite symbol of the maker community - those who create with it, receive master level praise. This simple kit will have your students creating SMART anything. Just be ready for some after school internet research.
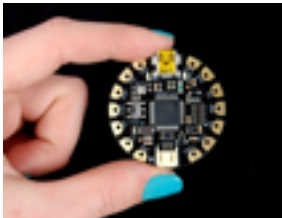**www.raspberrypi.org**
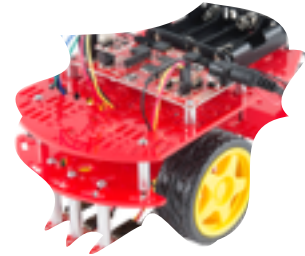
SparkFun Red Bot Kit
Have students who dream about creating their own fleet of autonomous robots? This simple kit will expand their robotic horizons. Easy to program; students will marvel at how they can use SCRATCH coding to maneuver this feisty robot.
**www.sparkfun.com**

Adafruit FLORA
This wearable, arduino platform allows students to incorporate complex electronics into any garment. The easy to use learning commons available on the **adafruit.com** website will maximize the project creation.
**www.adafruit.com**

Miniature Sewing Machine
Not only will this sewing machine arrive in a vibrant colour, it will also handle any small sewing job that your students require, directly on the cart.
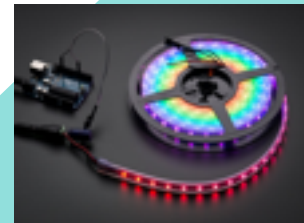
Adafruit Neopixel
One of the most popular ways to customize student wearable creations is to add blinking lights. Neopixels in this cart come in various shapes and lengths. Need a pair of light-up shoes? Students will be creating a whole new light-up wardrobe.
www.adafruit.com
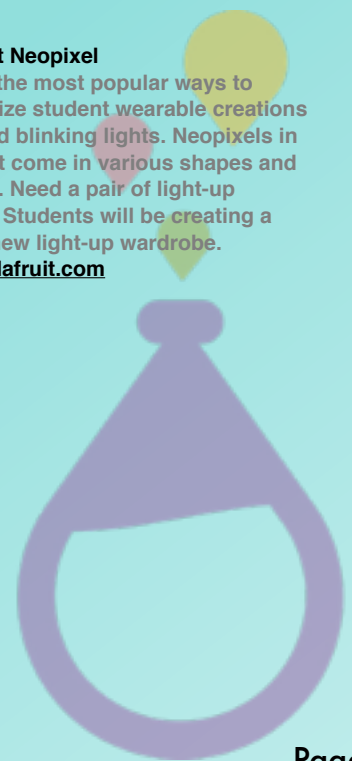
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Additional Included Components		
Spool Conductive Thread	9V Batteries x12	Sheet of Neopixels x20
Chip Board Vise	Audio SFX Board	Rollup Extension Cord
Soldering Iron	AAA Batteries x24	Motor Sheild
Digital Multimeter	Getting Started with FLORA Book	2m Neopixel Strip
Digital Callipers	3 Rolls Filament	Standard Servo
Electric Light Wire	Bare Conductive Paint	Arduino Gemma
Red LEDs x25	Blue LEDs x25	FLORA Colour Sensor
Wire Cutters	Wire Stripper	Solder
EL Wire Inverter	Neopixel Rings (16 LEDs)	Sewing Kit
Electret (Arduino Microphone)	White LEDs x25	Soldering Iron Stand
Breadboard Wire Bundle	Multicolour Tactile Buttons	Full Breadboard
Solder Sucker	Assorted Material	Stepper Motor
Slow Fade RGB LEDs x10	USB Micro Cable	Woven Conductive Fabric
Pocket Screw Driver	Precision Screw Driver	Alligator Clips x12
On/Off Tactile Button	Sewable Snaps	Sewable LED Sequins x10
Hookup Wire	Simple Pliers	Small Breadbaord
Solder Wick	DC Motor 5V	AAA Battery Holder
9V Battery Holder	Sewable 3V Coin Cell Holder	Coin Cell 3V Batteries
Thread	Needles	Various Consumables

We are excited about the contents listed above. For more information, please do not hesitate to contact either Jeff or Jacob.

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Brilliant Labs is continuously creating our own content to support the learning provided by the technology above. While you are waiting for us to develop more, simply search any of the items above. All of them have extensive resources online to help shape your maker projects.