

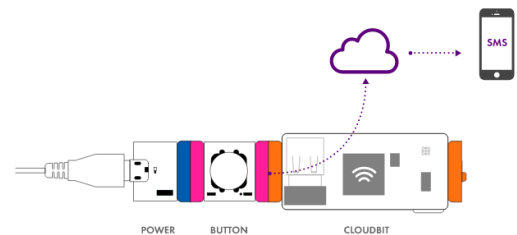


Maker Space Kit Idea Sheet

littleBits Electronics cloudBit

CONTENTS: 1 USB power, 1 sound trigger w/screwdriver, 1 button, 1 servo (5 parts), 1 long LED, 1 cloudBit, 2 mounting boards, 1 USB power adapter & cable

REQUIREMENT: A computer with a p3 USB port is needed for this kit. Look at the USB ports on the computer/laptop you are using, if there is a blue colored piece in the USB port then it is a USB 3 port. **WVLS does not have a USB 3 capable laptop in Lend Items for borrowing.**



EXPLORE:

<http://littlebits.cc/kits/cloudbit-starter-kit>

AWESOME videos! Connect wifi and the internet to control anything!

DESCRIPTION:

For intermediate littleBits users. The littleBits Arduino kit contains eight prototyping modules. It's everything you need to get started with electronics and programming. Step by step instructions on how to get started: <http://littlebits.cc/arduino> Make your own Etch-a-sketch, program a visual display! Walk your way through the basics using the Arduino programming environment without the bread boarding, soldering or wiring normally required. Perfect for tinkerers of all levels. Ages 14+

PROGRAM IDEAS:

Volunteer/Partner Presenters: Is there a community member or group who would volunteer to help a library staff member pull off a program?

High school science teacher, Science/Science Olympiad Clubs, Girl/Boy Scouts, NTC Engineering Professor, Parent/Teacher Organizations, Local Teenager, Story time regular grown up, Friends of the Library, Library Board Member, Red Hatters Club, Church groups, Kiwanis/Rotary/Lions, parents/caretakers/grandparents, more!

Active Programming:

- Demonstrate littleBits at middle school or high school open house nights with a library display. Play littleBit videos on an iPad to encourage interaction.
- Invite Boy/Girl Scouts to a littleBits day as part of their computer or electricity merit badge instruction.
- Does your community have a festival day (Harvest Fest, Cranberry Fest, Craze Daze, etc.)? Advertise a technology program or drop-in activity with littleBits for the same day.
- Set up a few tables with a different littleBits kit on each table.

Passive Programming:

- Teen Tech Week at the Library, make a passive program station with littleBits. Instruct the teens to finish a project and snap a photo of themselves using it to send to the library. Play littleBit videos on an iPad to encourage play.
- Setup a play table with littleBits and simple directions during a craft or major program day to occupy those who are waiting for the other activity.

STEAM and maker space programming clearly show how libraries are providing programs outside of traditional library programs. Additionally, libraries are collaborating with community experts in STEAM learning opportunities. The Aspen Institute, [**“Rising to the Challenge: Re-Envisioning Public Libraries.”**](#)