littleBits Invention Kit & Makerspace Wall Training

Overview

Invention Kit:

- What's new & different
- Why the invention kit
- New Content

Makerspace Wall

- What's new & different
- Why the Makerspace Wall
- New Content

INVENTION KIT

Invention Kit

What's in the Kit?

Power:

- p3 USB Power - 1
- p7, power 9V battery - 1

Inputs:

- **i2, toggle switch - 1***
- i3, button - 2
- i5, slide dimmer - 2
- **i7, remote trigger - 1***
- i8, proximity sensor - 1
- **i12, temperature sensor - 1**
- i13, light sensor - 1
- i16, pulse - 1
- **i20, sound trigger - 1**
- **i23, threshold - 1***

Outputs:

- **o1, LED - 1***
- o6, buzzer - 1
- o9, bargraph - 1
- o11, servo - 1
- **o19, RGB LED - 1**
- o21, number - 1
- o25, DC motor - 2

Wires:

- w1, wire - 2
- w7, fork - 1
- **w8, latch - 1***
- w10, inverter - 1
- w19, split - 2

Accessories

- Storage bin
- Twist ties
- Hook and loop strip
- 9v Battery
- Servo mount
- 0.5m usb cable
- Magnet bitshoes - 10
- Hook and loop bitshoes - 10
- Adhesive Bitshoes - 10
- Mechanical arm - 2
- Motor Mate - 4
- Wheel - 4
- XL Mounting board - 1
- 2pc mounting board - 1
- **Educator Guide - 1**
- **Meet the Bits challenge cards - 1***

What's Different

littleBits Invention Kit:

A modular system of electronic building blocks that makes STEM education approachable and engaging in with students aged betw een 5-11, the littleBits Invention Kit is perfect for those seeking a versatile and straightforward tool to seamlessly reinforce cross-curricular concepts in a hands-on and uncomplicated manner.

With littleBits, students of all learning styles can confidently engage with abstract concepts, leading to creative confidenc e and curiosity from the very first snap.

Key Features and Benefits

- Screen free: Hands-on creativity time, not lean-back screen time, no coding required!
- Included Challenges: Step-by-step to open ended challenges.
- Versatility: Adaptable to a variety of subject areas.

Why did we make the switch?

No programming required

- With other Sphero products focused on programming, use one that is solely focused on Engineering Design and STEM

Perfect for students aged between 5-11

- Now with Challenge Cards students can get started right away without much intervention from the educator
- Removal of coding keeps it simple and focused
- New content to support the classroom.
- Should not compete with Blueprint Engineering

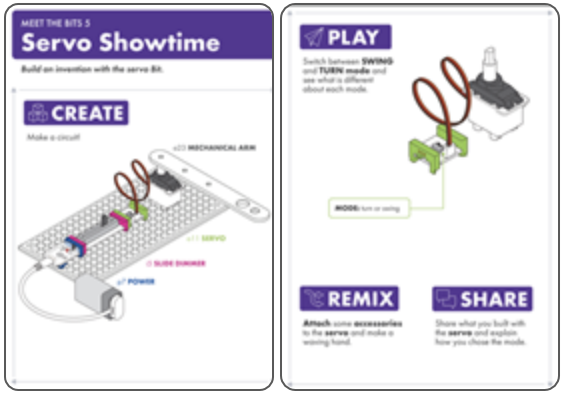
New Printed and Digital Content

Educator Guide

- 50 pages; included in Class Pack
- Bit basics
- Bit Index
- Invention Gallery
- Prototyping and troubleshooting

Meet the Bits Challenge Cards

- 10 cards printed in each Student Kit
- Perfect for getting started
- Create, Play, Remix, Share



Lessons on Sphero Central

- Meet the Bits Challenge Cards (10 lessons)
- SEL Challenges (6 lessons)
- Invention Cycle Classics (9 lessons)

Resources

- Bitopedia
- Videos
- link to littleBits Classroom

Makerspace Wall

What's in the Kit?

Power:

- p3 USB Power - 10
- p7, power 9V battery - 10

Inputs:

- i2, toggle switch - 10
- i3, button - 20
- i5, slide dimmer - 20
- i7, remote trigger - 10
- i8, proximity sensor - 10
- i12, temperature sensor - 10
- i13, light sensor - 10
- i16, pulse - 10
- i20, sound trigger - 10
- i23, threshold - 10

Outputs:

- o1, LED - 10
- o6, buzzer - 10
- o9, bargraph - 10
- o11, servo - 10
- o19, RGB LED - 10
- o21, number - 10
- o25, DC motor - 20

Wires:

- w1, wire - 20
- w7, fork - 10
- w8, latch - 10
- w10, inverter - 10
- w19, split - 20
- **w34, microbit adaptor, 10**

Accessories

- **Wall Storage (25 small, 20 large bins)**
- Twist ties
- Hook and loop strip
- 9v Battery
- Servo mount
- 0.5m usb cable - 10
- Magnet bitshoes - 100
- Hook and loop bitshoes - 100
- Adhesive Bitshoes - 10
- Mechanical arm - 20
- Motor Mate - 40
- Wheel - 40
- XL Mounting board - 10
- 2pc mounting board - 10
- **Playing cards - 10**
- **3 Craft Packs**

What's Different

Invention Kit:

- 29 Bits
- $399
- New storage bin
- Challenge cards

Invention Kit Class Pack 10:

- 290 Bits
- $3999
- New storage bin
- Challenge cards
- 1 craft pack

Invention Kit Class Pack 15:

- 435 Bits
- $5999
- New storage bin
- Challenge cards
- 2 craft packs

Makerspace Invention Wall:

- 300 Bits:
- $4999
- Wall storage
- Programming w/micro:bit adaptor
- Playing cards
- 3 craft packs

Why did we make the switch?

No Less bits than previous versions, but higher quantities

- We removed a lot of different bits that were rarely used
- Added higher quantities of more frequently used bits that are more useful in Elementary school

Perfect for Makerspace

- Very similar kit to the Invention kit, but comes with Wall storage for easy collection and distribution of a variety of bits
- Allows for more open ended building now with the integration of the playing cards

No coding required

- The bits included in this kit do not require coding or the use of the Fuse app.
- Use the playing cards in place of the Fuse building section
- Use the micro:bit adaptor if you want to take your builds further and code

New Printed and Digital Content

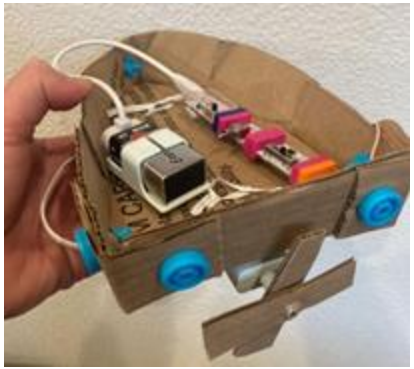
Lessons on Sphero Central

Playing Cards

- Cards for each of the Bits and accessories.

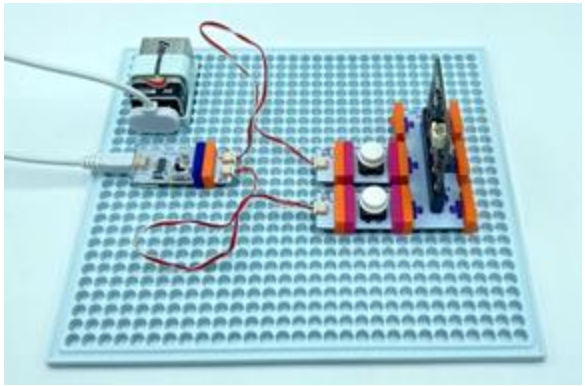
Card Game Collection

- Bit by Bit
- Bit Fish
- Circuit Sleuths
- Green Gadgets Card Game



Micro:Bit Game Collection

- littleBits and micro:bit magic
- Musical Chairs Maker
- Spin and Win
- Rock, Paper, Scissors Showdown



FAQ’s & Links

FAQ's

- Are the bits in the Invention Kit backwards compatible with my old bits?
  - *YES*
- Can I just buy the new bin?
  - *Yes*
- Will I still be able to buy the old bits?
  - *Yes, but only until the are OOS*
- Will we still be selling the old kits?
  - *Yes, until stock is sold through*
- Can you use the old content with the new kits or vice versa?
  - Yes, most of the content is versatile enough to use with any kit, you may have to switch out an input or output
- Can you still program littleBits?
  - Only with the micro:bit adaptor and Make Code.
- Do the littleBits bins stack with Blueprint?
  - Yes the are the same bins just a different color lid

Questions?

Important Links/Documents

- New Lessons on Sphero Central
- Bit-o-pedia
- Resources on Sphero Central
- Spreadsheet of skus and go forward bits
- Reseller Tool Kit – images and content