

Get started with MESH get.meshprj.com/education

Inspire curiosity in STEAM.

"MESH is a toolkit that simplifies inventing and making to free students from the paralysis of technical challenges, and allow for more focus on creativity and discovery."

- Takehiro Hagiwara, Co-Founder of MESH

It's no secret that educators and world-renowned companies like LEGO and Crayola, are embracing 21st Century skills (e.g., problem-solving and creativity) as a pathway to preparing children to thrive in our innovative, technology-driven world. At MESH, we're driven by a mission to unlock children's natural curiosity about technology and electronics to foster 21st Century Skills like computational thinking and creativity.

MESH is a one-of-a-kind block kit that allows children to jump into the world of technology through invention and making. Whether children are just beginning to learn about computer programming or already have the skills to code and prototype electronics, they can use MESH to follow their imagination with fun technology projects like building a smart gadget. At the heart of every project lies key learning areas like problem-solving, logical thinking, STEM skills, digital literacy, creativity, collaboration, and communication.



Problem Solving

Encourage critical thinking with a kit designed to turbocharge ideas and bring technology to life to solve problems, real and imaginary alike.



STFM Skills

Discover programming, electronics, engineering, and design in guided activities that explore hardware and internet technology to create interactive projects.



Creativity & InnovationUnleash students' creativity with

make-to-learn projects like creating a motion-activated, singing teddy bear, a smart light, or even a self-feeding pet bowl.

MESH puts technology in the hands of students to imagine and make.



MESH LED



Light Up & Firefly Set the LED to light up or glow when the it is triggered.



Blink Set the LED to blink when it is triggered



Off Set the LED to turn off when it is triggered.



MESH Button



Press Trigger an action when the button is pressed once.



Hold Trigger an action when the button is held.



Double Press Trigger an action when the button is pressed twice.



MESH Motion



Detected Trigger an action when motion is detected.



Undetected Trigger an action when no motion is detected.



Check!

Check Motion

Use another action, like a click of MESH Button. to check for motion or for the absence of motion and then trigger another action



MESH Move







Shake, Flip, or Tap

Trigger an action when the tag is shaken, flipped, or tapped.



Orientation

Trigger an action when the tag is oriented with a certain side facing up. (Orientation is based on six settings: Front, Left, Top, Back, Right, Bottom.)



MESH Brightness



Detect change & check brightness

Trigger an action if there is a change in ambient light; or use another action, like a click of MESH Button, to check whether brightness is within a set range and then trigger another action.









Detect & check

openness and closeness Trigger an action if the tag is covered; or use an action, like a press of MESH Button, to check whether the tag is concealed from light to trigger another action.



MESH Temperature & Humidity



Detect change in temperature & humidity

Trigger an action when temperature or humidity reach a certain range.





Check temperature & humidity

Use another action, like a click of MESH Button, to check for temperature in a set range, and if temperature is within the set range then trigger another action.



MESH GPIO











General Purpose Input Output (GPIO) Pins

Trigger an action in the MESH app when a signal is received in the following:

- Digital In
- Digital Out Analog In
- PWM Out
- VOut Supply

Bring everyday technology into projects with the MESH app.

Explore Device Functions



CameraTake a photo
using the camera
on the device.



MicUse the microphone on the device.



SpeakerPlay audio
from the device.

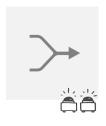


SpeakerDisplay a notification on the device.



MusicPlay music from the device.

Discover Coding Logic



"AND"
Trigger an action using multiple signals.



TimerControl the timing of signals.



Switch Switch the output line.



CounterCount the number of signals detected.

Build with Real Gadgets & Apps



Philips HUE
Customize
Philips Hue
smart light bulb.



GmailConnect to gmail to send and track emails.



IFTTT
Connect to
hundreds of online
services smart
devices.



Olympus Air Custom Olympus Air integration block.