Micro:bit & Scratch 3.0: Physical Computing for All Learners

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The Micro:bit



https://www.flickr.com/photos/120586634@N05/26146398532/in/album-72157666779253585/



In our time together, can you create 1-2 of these projects in pairs?



Math Story Problem:



Touch Sensors:



Interactive Lego Challenge

Can you design a space that is special to you using Legos: home, a park, museum, school, etc? Incorporate the Micro:bit in way that allows users to use the push buttons, touch sensors, or view the display in interesting ways.



Engineer a Housing for the Micro:bit

Can you design a housing for the Micro:bit that lets you attach it to your body in a creative way? How about attaching it to one of the playful objects or recyclables?



Photo via microbit.co.uk

Helen Leigh @helenleigh Jul 11

Lesley STEAM guidelines:



Let's Play: Learning as "Hard Fun"¹

Let's Think Out Loud: Learning as Social

Let's Ask the Room: Learning as a Network of Thinkers

Let's download Scratch Link

- 1. Download and install "Scratch Link": <u>https://scratch.mit.edu/microbit</u>
- Find the application Scratch Link on your computer, click on it to make it run. Make sure you see the icon for it in your toolbar.
- 3. Then in Scratch 3.0 (<u>https://beta.scratch.mit.edu</u>):



Let's Play (in pairs)!

https://beta.scratch.mit.edu/

[If you're coming in late:]

- Download and install: <u>https://scratch.mit.edu/microbit</u>
- Find Scratch Link on your computer, click on it to make it run. Make sure you see the icon for it in your toolbar.





Share one thing with the room that surprised or delighted you.

