

Makey Makey

Example: Students create their own keyboard to operate the computer. Use the makey makey, alligator clips and conductive materials to create a touch pad/controller.

TRY IT:

Can you play piano?

Using the conductive materials available, feel free to rearrange the alligator clips and materials!

TIP: the person operating the controller needs to be connected to 'earth' (the penny in our example). Can you play the piano? Can a group play together? How does this work?

BBC Microbit

A Tiny computer complete with built in sensors allowing students to design, code and test their own programs and even devices. *I've used this with grades 5 and up

TRY IT:

Can you move the wire along it's path?

The example here is similar to the old game 'operation'... the controller was programmed by a grade 10 student responding to sense and respond when the wires 'touch'. Try to move the wire loop across the copper path... what happens when the wires touch?

Ozobots

Little robots that can be programmed using colour codes, visual programming blocks and using more advanced programming languages. This makes them great for scaffolding student learning across grade levels from Kindergarten to the Secondary grades!

TRY IT:

Operate or even program the robot!

Turn the ozobot on (calibrate it if needed) and set it on a path you've selected or programmed