

STUDENT MAKEY MAKEY CHALLENGE CARDS

Note: You will facilitate this like a Science Lab



Simple Circuit Challenge 1:

Simple Circuit: Can you figure out where to plug in the LED on the Makey Makey and complete a circuit by touching playdoh? (Remember that LEDs have a short leg to indicate the negative side. You need to create a loop for the current to flow!)



Simple Circuit Challenge 2:

Can you use people to complete the circuit? Can you add people and the LED still light up? How many people can be in your chain and still complete the circuit?



Simple Circuit Challenge 3:

Create a Makey Makey keyboard with tinfoil and popsicle sticks. (Hint you will need to create your own piano with Soundplant application or find a piano on Scratch that uses WASDF keys)



Simple Circuit Challenge 4:

Can you create human piano keys? Can play the piano by playing your friends?



Simple Circuit Challenge 5:

Building a Switch: Can you make a switch with Playdoh that will still light up your LED on the MM without using yourself or another person as a ground? (Hint: You will need two alligator clips to Earth.)



Simple Circuit Challenge 6:

Parallel Circuit: How can you create a parallel circuit that will successfully light up a second LED? (Hint: Where is your LED getting output from?)



Simple Circuit Challenge 7:

Parallel Circuit: How many LEDs can you power? What ports on MM will allow you to power LEDs? (Hint: Earth is your ground/Attach your LED negative led to earth!)



Simple Circuit Challenge 8:

Building a Switch: What other materials can you use to build your own switch? What materials work? What won't work? Why?