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Makey makey operation scratch

If you are interested in step-by-step instructions on building your own Makey Makey Scratch Operation Game, consider buying my book, *The Invent to Learn Guide to Fun*, which will guide you through the process step by step! I've been designing an Operation-type board game that uses Makey Makey to interface with a computer running Scratch. I started with a simple prototype left over from my squishy circuit Operation game. I was curious if Makey Makey would read a closed circuit on this hardware. Good news: it works! Connect an alligator clip cable from Makey Makey to the game board's foil game port. Connect the Makey Makey Board's Earth port to another alligator clip cable. I wrote a simple Scratch program looking for the space bar to be pressed. If the circuit is closed via Makey Makey the cat turns green and makes a sound to indicate that you touched the foil. The prototype worked! The Makey Makey recognized the closed circuit! With everything in place the game can be connected to Makey Makey and along with the laptop running Scratch and my project, you can play Operation! A DIY version of the classic game Operation, starring Makey. PRINT THESE INSTRUCTIONS A small USPS shipping box A Makey Makey kit A sheet of cardstock Copper band Tape 4 1/8-inch with 1-inch springs Metal tweezers Printed template Scissors Cut off the lid of the shipping box and then mount the rest of the box with tape. Print the template (it can be downloaded here) and tape it to the top of the box. Then cut out the green squares on Makey. Be sure to cut through the paper and box. The edges of all holes must be wrapped in copper tape. Try to apply it as evenly as possible without turning off the hole. We need a good place to attach the joints for Makey Makey. Add strips of copper tape from each hole, and at the end of each strip fold over a small amount of tape to make a flap that we can easily cut to. Cut strips of cardemstock every 1/4 inch thick and about 4 inches long. Shape the paper strips into loops and then tape a loop around the back of each hole in Makey. Attach 4 leads to the copper strips we previously added. Keep track of which color leads you attach to which hole for later. Cut a notch in the box top that we earlier removed from the box. Now you can press the box from the top down the box until it rests on loops of short layer. Connect the wires coming out of the box to Makey Makey. The pattern for connecting them is: Left arm to left arrow. Left leg to up arrow. Right leg to down arrow. Right arm to right arrow. Connect a cable to ground part of Makey Makey and then connect that wire to the back of your tweezers. Place the four springs in the holes in Makey's limbs. Can you make the game more challenging by going bigger or smaller? Try adding more operating points to Makey using some of the other pins on the back of Makey Makey. Please note Your safety is your own responsibility, including proper use of equipment and safety equipment, and determine if you have sufficient skill and experience. Power tools, electricity and other resources used for these projects are dangerous if not used properly and with adequate precautions, including safety equipment and adult supervision. Some illustrative photos do not depict security measures or equipment, in order to be able to view the project steps more clearly. Use of the instructions and suggestions contained in Maker Camp is at your own risk. Make community, LLC, disclaims any liability for any damages, damages or costs resulting therefrom. Manufacture: produce a variety of great products and helpful project tutorials to improve your making experience. We use cookies to optimally design and continuously improve our websites for you, as well as to display news, articles and ads in line with your interests. Let's assume you're ok with this, but you can opt out if you want. You can use the Configure button to select which cookies you want to allow. You can find more information in our Privacy Policy. ConfigureACCEPT Privacy & Cookies Policy Original Operation Guide by Josh Burker Here is the original guide by Josh Burker to build your own Operation Game! Makey Makey Classic Alligator Clips A computer running Scratch Chopsticks Electric Wire (I used telephone wire) Cardboard, like an upcycled cereal box or laptop box A sheet of cardboard clipped from another cardboard box Acrylic paint Sharpee pencil Ruler Scissors X-Acto knife Copper tape with conductive glue or aluminum foil and a glue stick Hot glue gun and glue or sucking clay that cures and cures Be inspired and see what other people create! Confirm your email to turn on sharing. Do you have a problem? x We are experiencing a disruption with e-mail delivery. If you don't receive emails from us, please try after 8am EST. x Confirm your email to enable sharing. Do you have a problem? x We are experiencing a disruption with e-mail delivery. If you don't receive emails from us, please try after 8am EST. x Use Makey Makey, Scratch, and some recycled materials to create your own version of The Operation Game, a classic board game invented in 1965. In the game, the player uses metal tweezers to carefully extract organs and bones from the patient's body without touching the patient's sides. In the John Burker version, the Makey Makey discovers these touches and triggers different reactions in scratch program.Making your own version of the game allows endless variations in the build-up of the patient and the reactions to success or failure programmed in Scratch. For example, instead of working on a human, you can build your own version around a fish and create a biology lesson. Or, get to navigate through Mr. Mr. Fab Lab class. If you touch the sides of the 3D printer... do the student Do it again! Keep score, add sound effects, present facts, and be sure to add dark humor and a surprise. Part of the fun of this project is finding the perfect box to house your game and decorate it. Cereal Box or Pizza Box anyone? Design Challenge - Make your own version of The Operation Game... and make it interesting! Now that you know the size of your tweezers, you can plan out where you want your surgery spots to be and pull the holes you will cut. Think about the size of your operating hole carefully- if it is too large, it will be too easy to get the object out; if it's too small you won't be able to get the item out with tweezers. Once you have the amount and size of the operational holes pulled out, cut them out with the box cutter. Save the shapes you cut out for the next part. Next I made foil pockets and some supporting boxes for the back of the operating hole. I glued the cardboard that was cut out for the operating holes into a piece of aluminum foil. In a corner of the foil I twisted a small foil rope and folded up the rest of the foil to make the walls of the drift hole pocket. I then glued the cardboard base of the foil pocket into a small cardboard that would surround and protect the foil. I cut a slit into the side of the box to let the twisted foil rope or wire out to be connected to makey makey. From the back of the playing field, I pushed the foil walls up through the operating hole shape and the duct-taped box flush to the back of the playing field (with twisted foil rope sticking out). Next I glued the edges of the walls down the playing field to make the edge of the operative hole leading. After I made all my foil pockets, on the back of the playing field I made each twisted foil rope longer and twisted them together in one place to connect to makey makey. If you want the game to make different sounds for each operation location, then leave them separate. We've had a Makey Makey for years now and never really moved beyond the banana piano (which is very cool) so I thought lockdown would be a good time to try something a little more adventurous. Our giant operation game was great fun and a brilliant second project to try. Homemade operation game - what you need:A Makey Makey LaptopCard and paperThin cardboard boxKitchen FoilTweezersSmall items to use as legOperation Games InstructionsDrag your character on one side of the box. Carefully cut holes in 3-4 places. Cover the hole on both sides and place a path down to the bottom of the box using aluminum foil as shown below. This must be done on the opposite side of the drawing. Attach a separate crocodile clip connected to a wire at the end of each path of foil. Decorate one side of the box and fasten the other end of the threads to Makey Makey thread should be connected to the tweezers. We used the piano Makey Makey app, but for an extra challenge you can try this scratch operation game. Try your game! Giant Operation GameOur mini-game was so much fun we decided to go big! We used an A1 sheet of cards to make this giant version and raised it above the ground to play the game. Instead of tweezers we used giant BBQ tongues and dinosaur legs for the legs! I'd love to see your Makey Makey project if you try anything! Affiliate Links Links

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