BARNABAS ROBOTICS

MEDICINE CUP-BOT

(Rev. 1.00)

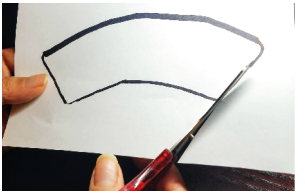
PART 1: PREPARE YOUR MATERIALS

- 1 x Torso & Head Shapes
- 1 x Coincell Battery
- 1 x Mini Vibration Motor
- 1 x Medicine Cup (with double-stick foam & stickers attached)
- 1 x Double-Stick Foam
- 1 x Round Sticker
- Tape
- Miscellaneous Craft Materials

PART 2: CREATE YOUR ROBOT'S BODY

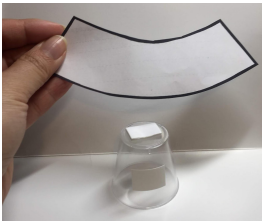
A) The medicine cup is your robot's body. Put the cup upside down on a table. (The base of the cup will be the top of your robot's head.)

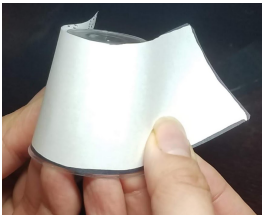
B) Decorate and cut out your "rainbow" shape. This will be your robot's body (torso).



C) Peel off the backing of the two stickers on the sides of the cup.

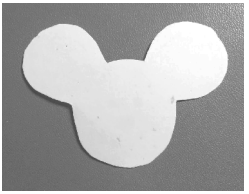
D) Hold your rainbow cut-out upside down and hold the cup upside down. Wrap the rainbow cut-out around the cup. Tape down the ends of the rainbow cut-out.

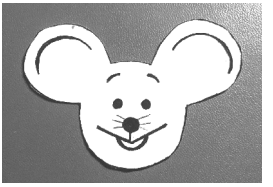




PART 3: CREATE YOUR ROBOT'S HEAD

A) Cut out a shape for your robot's head. Draw a face for your robot.



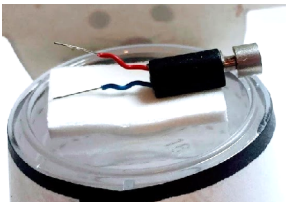


B) Take the head cutout and attach it to the cup using a piece of double-stick foam.

PART 4: MAKE YOUR ROBOT MOVE

A) Peel off the backing from the double-stick foam on the base of the cup.

B) Take your motor, and gently place the flat side of the motor down onto the double-stick foam so that the blue wire (-) is facing **<u>down</u>** against the foam sticker. Make sure:

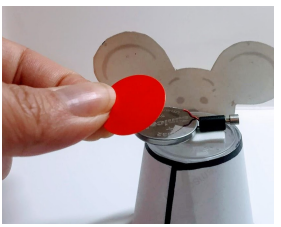


1) The entire black part of the motor is stuck on top of the double-stick foam.
2) The metal shaft of the motor and the red wire (+) are **<u>NOT</u>** touching the double-stick foam.

D) Slip the coincell battery in between the 2 wires of your motor. Gently push the battery down so that it sticks to the double-stick foam.

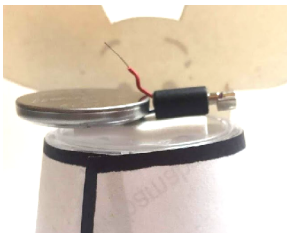
PART 3: TURN YOUR ROBOT ON

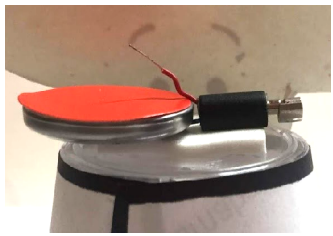
A) Take a circle sticker and stick it on top of the red (+) wire and battery. Push down on the sticker to turn on your robot.



PART 4: TURN YOUR ROBOT OFF

A) To **turn off** your robot, carefully take off the circle sticker. Slip the sticker in between the battery and red (+) wire to block the wire from touching the battery.





DO-IT-TOGETHER

Robotics Kits

Inside this packet is a creative robotics project designed for kids (ages 6-10) to build under the supervision and guidance of an adult.

If you have any questions or feedback during the robot-building process, you can reach us via the following ways:

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