

BRISTLEBOT ROBOT

Materials Needed:

- (1) Vibrating Motor - 6mm
- (1) LR44 Button Cell Battery
- (1) Toothbrush
- (2) Googly Eyes
- Double Sided Tape or foam squares
- Scissors
- Tape

Step-by-Step Instructions:

- (1) Prep the toothbrush. Cut off the handle of the toothbrush leaving just the head.
- (2) Stick double sided tape or foam squares to the back of the toothbrush (the opposite side of the bristles).
- (3) Attach the motor near the cut end of the toothbrush. Make sure the offset weight of the motor (skinny end) is hanging off the tape so it can spin freely.
- (4) Stick one of the leads (red or blue wire) on the tape with the end of it closest to the head of the toothbrush.
- (5) Stick the battery on top of the lead (the one stuck in the tape) with the words facing up.
- (6) Test your connection. Next, take the free wire (the one not under the battery) and tap it to the battery to make sure the motor works. If it doesn't, check that the wire is being touched by the battery and that the motor can spin freely.
- (7) Add feet to your bot. Place the pipe cleaners (2-inches long) in-between the motor and the battery on the adhesive and press down. Then fold the pipe cleaners down to press onto the table surface to help stabilize the bot.
- (8) Add your googly eyes. Remove the adhesive cover from the googly eyes and press them to the head of your bristlebot (tape/glue can also be used).