Bristlebot

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Written By: Joshua



INTRODUCTION

Bristlebots are great projects for kids of all ages. They're simple to create, fun to play with, and make great learning tools for STEM classes. With this guide we'll show you how to create your own bot in minutes. Be sure to check out our leveled lesson plans and directions.

Don't forget to check out all the PDFs listed at the end of this guide. We've got lesson plans for all grade levels.

TOOLS:

- Scissors (1)

PARTS:

- Bristlebot Kit (1)

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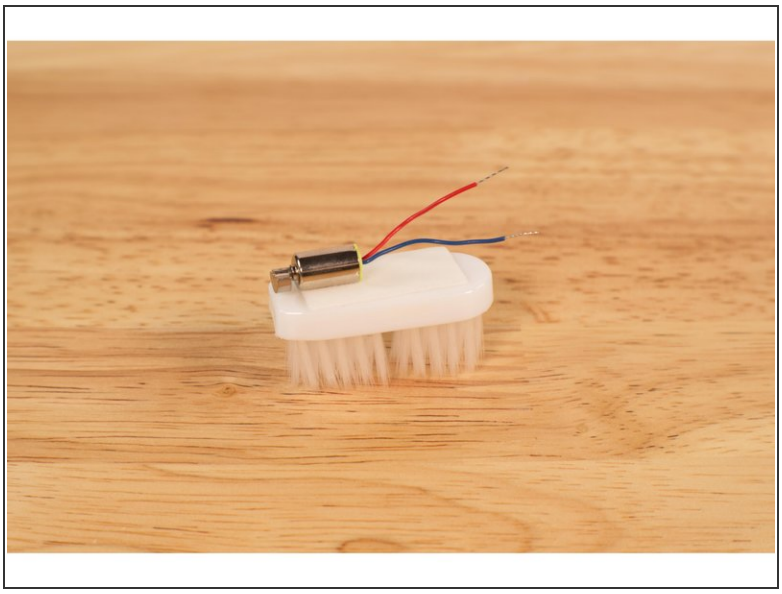
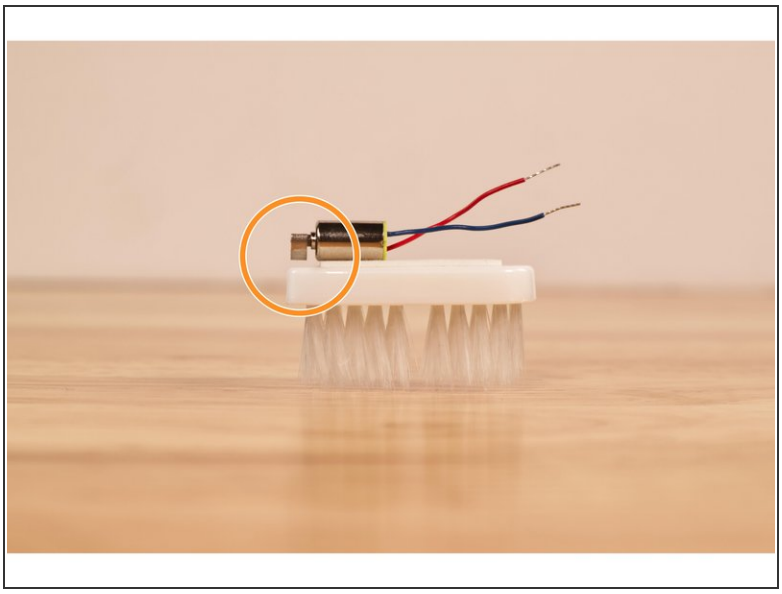
Step 1 — Add Tape





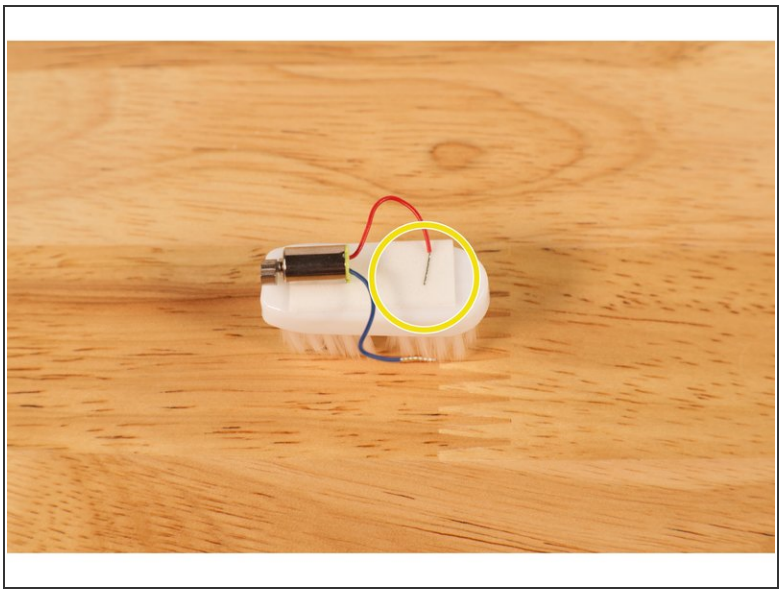
- Peel back one side of the tape and place it on the toothbrush head.
- Then peel off the top layer of tape.

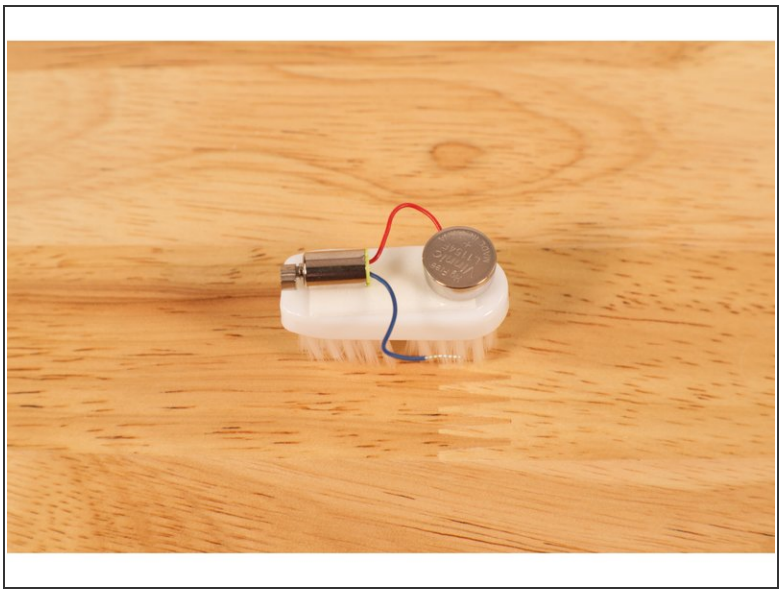
Step 2 — Add Motor

- Place the motor on top of the tape.
- Make sure the rotating head is hanging off the end of the tape and can move freely.

Step 3 — Place Wires





- Place one wire in the middle of the tape.
- Place battery on top of the wire.
- Test your motor by touching the second wire to the top of the battery.

Step 4 — Prepare Pipe Cleaners





- If your Bristlebot came with one long pipe cleaner you'll need to cut it into four pieces so they are the proper length.

ⓘ You can easily cut the pipe cleaner with scissors.

Step 5 — Add Pipe Cleaners

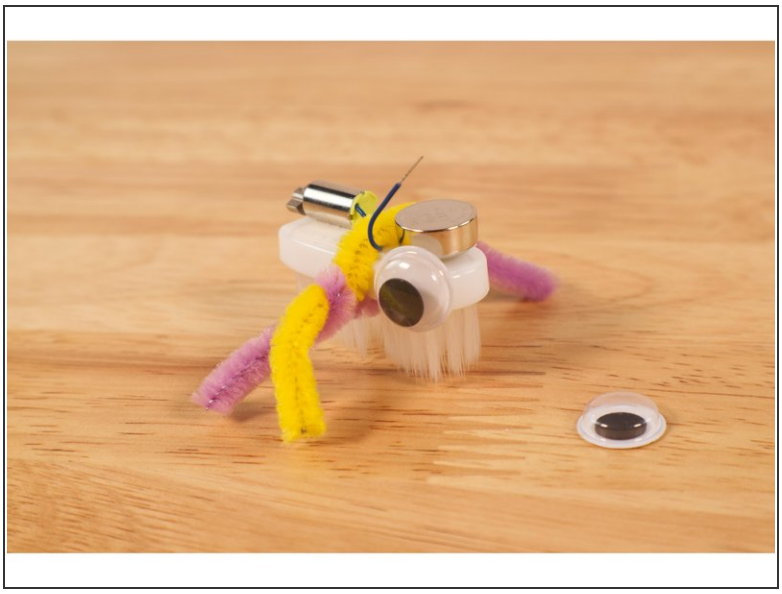






- Place one pipe cleaner *between* the bristles on the bottom of the brush.
- Place the second pipe cleaner on top of the brush, making sure your motor wire can still move freely.
- Twist the two pipe cleaners together and bend down towards table to help stabilize your brush so it can stand up on the bristles without falling over.

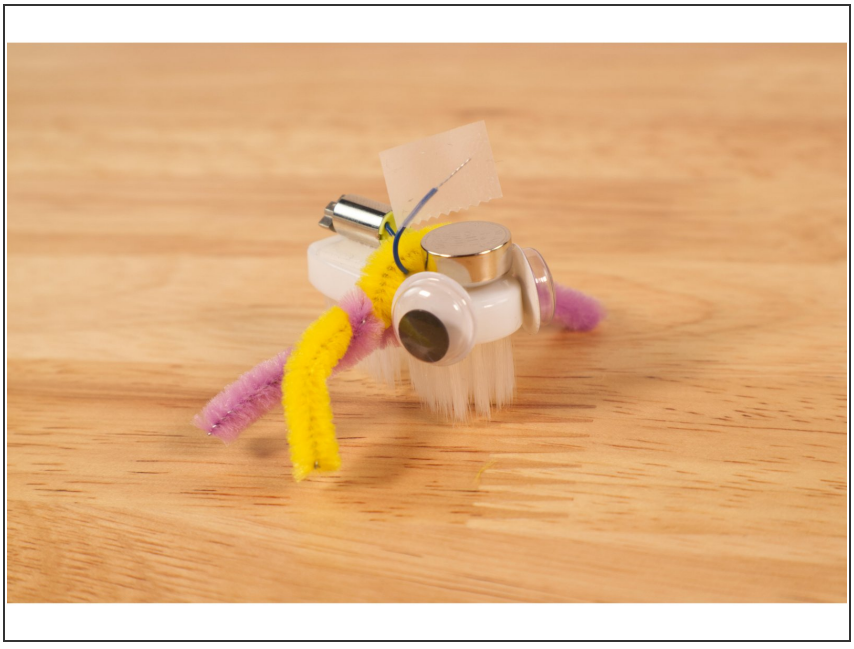
Step 6 — Add Eyes





- Peel off the protective layer on the eyes.
- Stick eyes to Bristlebot.

Step 7 — On/Off



- Press the free floating wire to the side of the battery to get it to stay in place.
- You can also use a small piece of tape or sticker to keep the wire down.
- Move second wire away (or peel away tape) to "turn off" the bot.

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