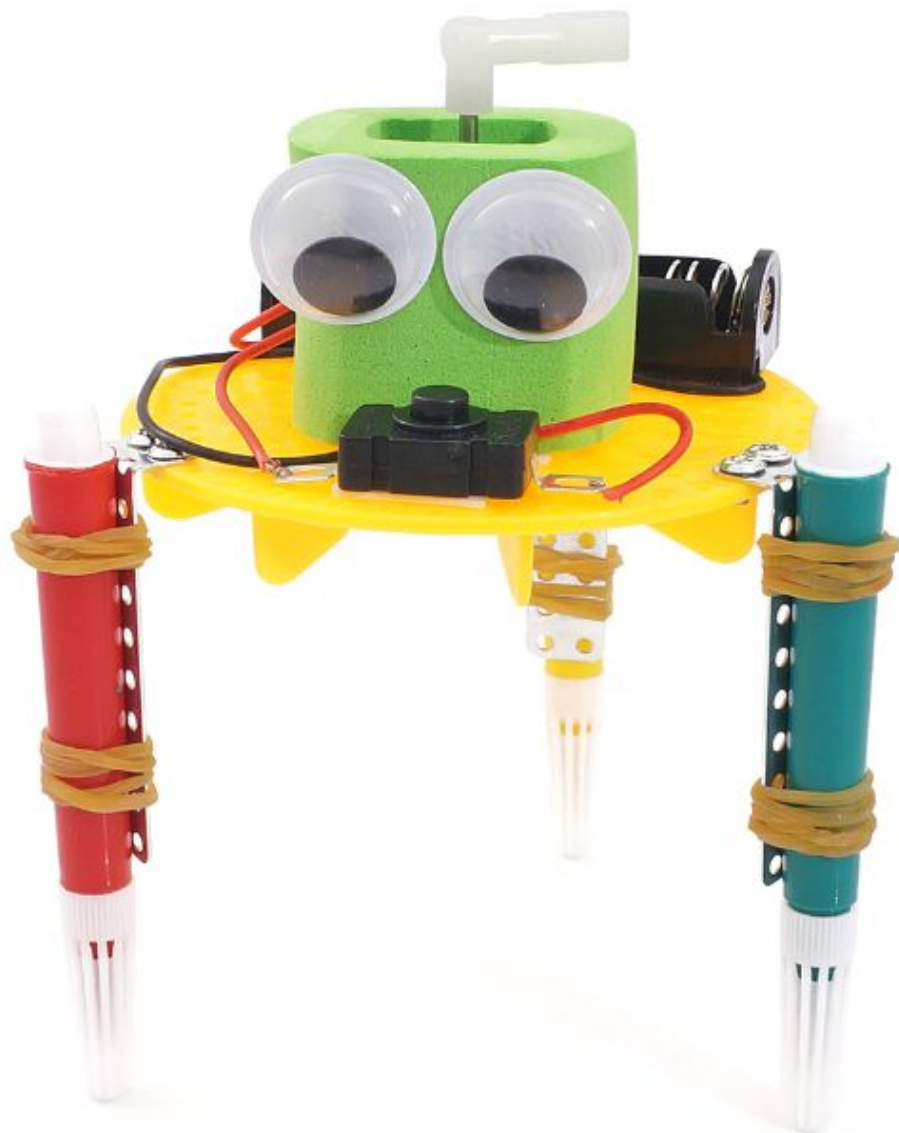


Activity Guide

Scribblebot

Topic: Maker **Level:** Intermediate **Duration:** 120 mins **Age Range:** 12+



ACTIVITY DESCRIPTION

Scribblebot

LEARNING OUTCOMES

Young People Will:

- Research the flow of electricity and report findings back to the group
- Create test circuits and learn how to adopt a tinkering mindset
- Create prototype plans and discuss with group for feedback
- Learn how to customise the visual design of the machine

COMPETENCIES

Young People Will Develop 21st Century Skills:

- Collaboration
- Communication
- Creativity and innovation
- Critical thinking and problem solving

Step-by-Step Instructions

Step 1: Prepare all the assembly materials.



Step 2: Locate the motor No.

Screw choice



Length 4mm
coarse thread
screws



Refer to the hole in the above picture, use 4mm coarse-grained screws to attach the three pieces of iron to the Round Ming round.

Step 3: Motor Connection



Follow the above diagram to use an electrical wire to connect the battery box, switch, motor (motor).

Step 4: Motor setup



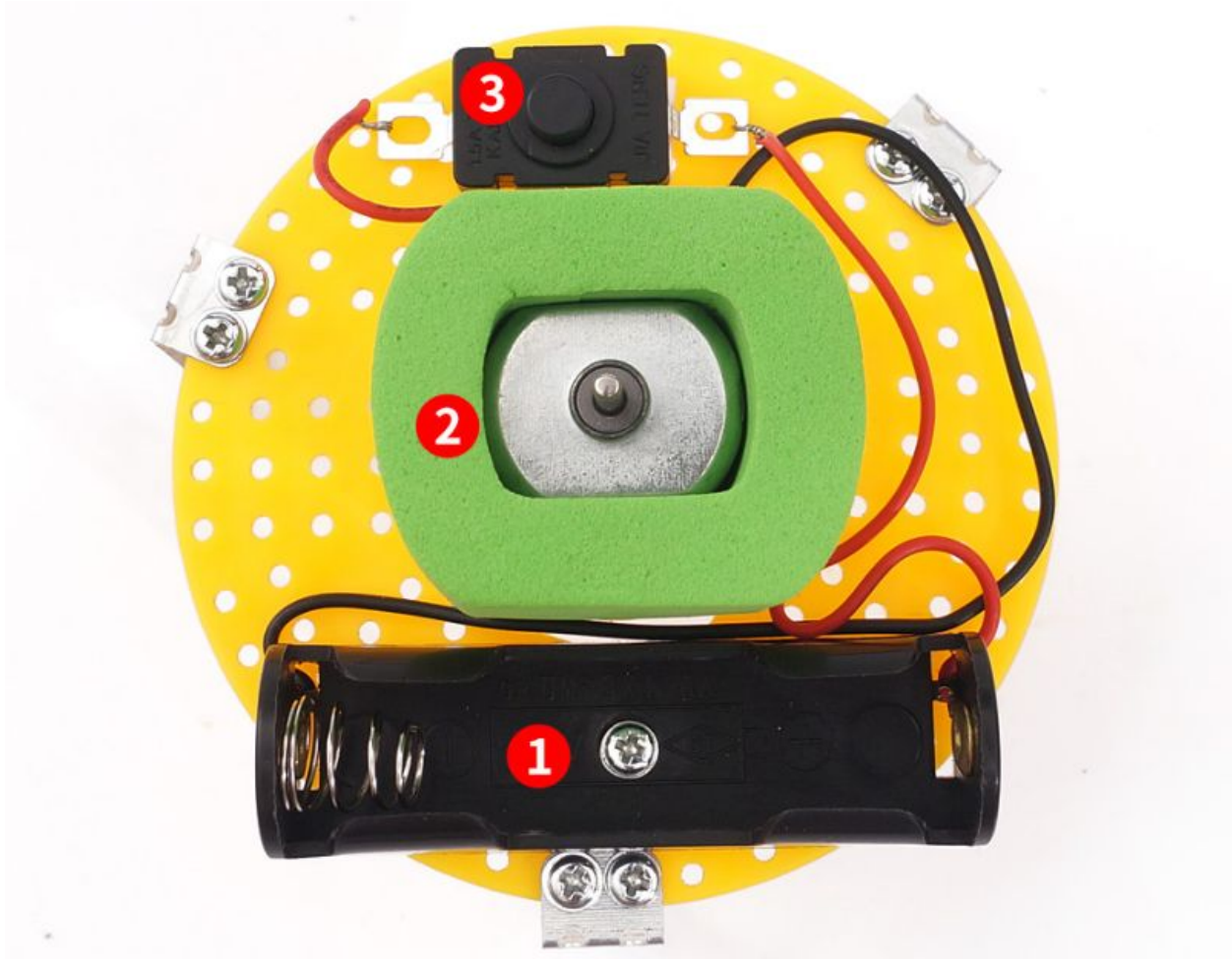
First scissors a 2mm deep smallmouth on the foam motor sheathed, then Insert the motor into the motor housing and secure the cable in the foam cover.

Step 5: Battery Box Connection



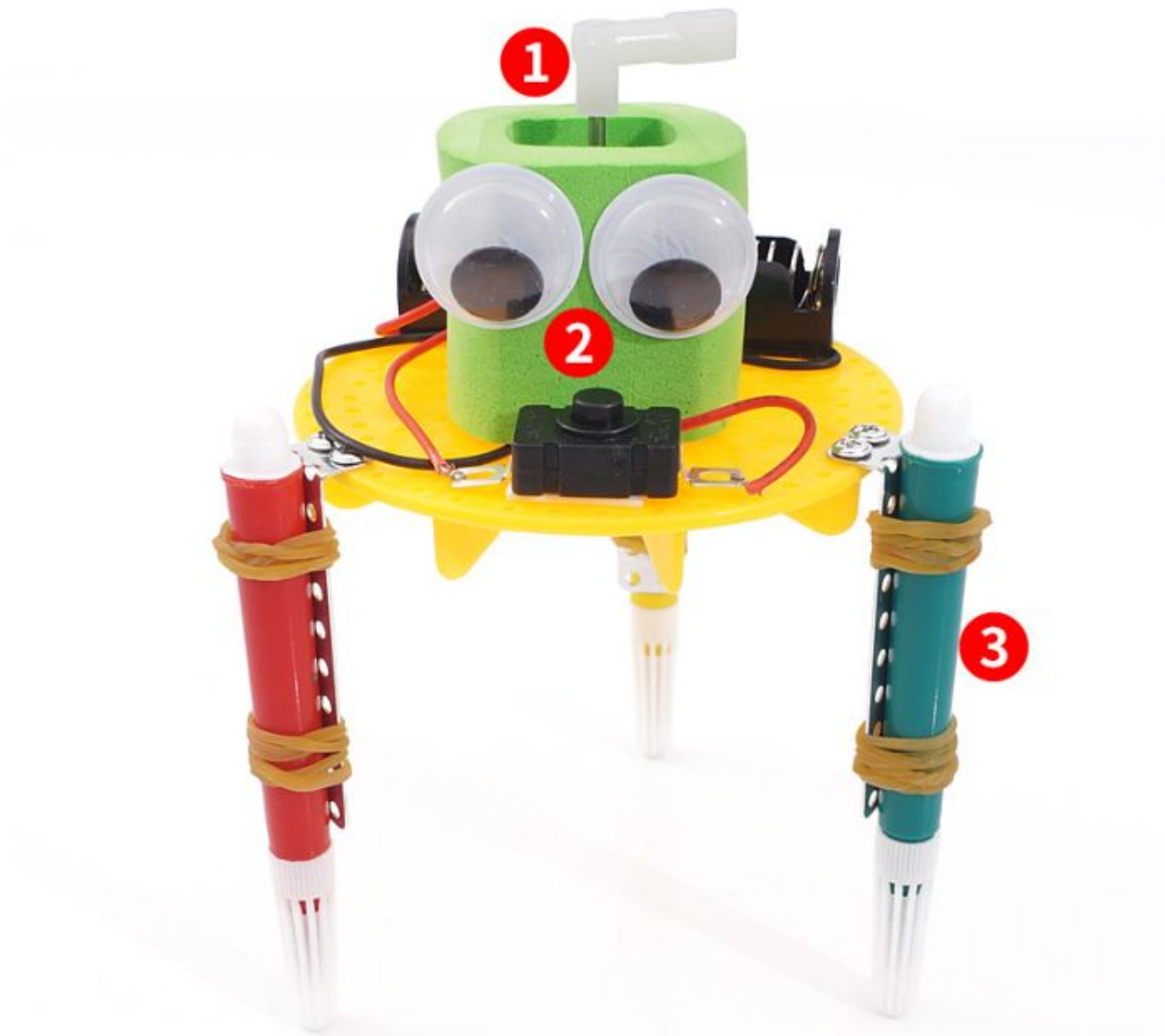
First cut the double-sided tape with scissors into 3 small pieces, cut it with reference to the red line on the picture above, and then stick the two long pre-cutted double-sided tape to the bottom of the foam motor base.

Step 6: Motor Housing



Refer to the figure above, I use a 4mm coarse-grained screw to fix the battery box on the wheel. 2 stick the foam cover to the middle of circle wheel. 3 stick the right size of double-sided tape to the back of the switch , stick the switch to the front of the foam cover.

Step 7: Turbine Connection



1. Put the crank to the shaft of the motor.
2. First tear off the back of the adhesive tape protection layer, stick the eyes to the foam folder.
3. Use a rubber band to tie the water color pen to the iron piece.

FURTHER TRAINING, SUPPORT & HARDWARE

If you would like to learn about future support, send an email to info@techspace.ie

- **Training Courses:** Download the TechSpace training brochure from www.techspace.ie
- **Join the TechSpace Online Network:** <https://members.camaraireland.ie>
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