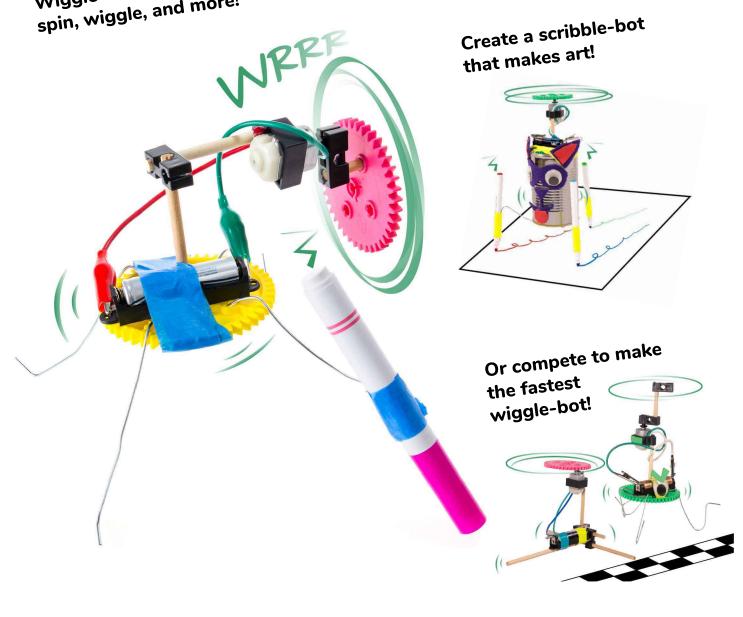
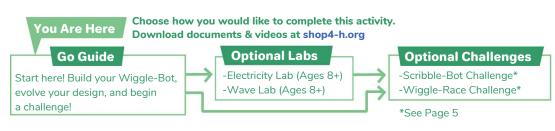
Go Guide Wiggle-Bot



Design and build your own motorized Wiggle-Bot. Evolve your design to spin, wiggle, and more!







Supplies

These are the parts you need to build one Wiggle-Bot.

WIGGLE-BOT PARTS

Do you have more parts? You may have the Super Wiggle Bots kit. Download the Super Go Guide at shop4-h.org

/ NAME	/QTY	/ PICTURE
Gear Set SKU 1821-28	1 set 4 gears	
Blocks SKU 1821-34	2	
Battery Holder SKU 1821-01	1	
Small Motor w/Leads SKU 1821-01	1	
Steel Wire 30 cm (12 in) SKU 1821-72	2	
Dowels various sizes SKU 1821-20	6	Dowel Sizes 2x 30 cm (12") 1x 7.5 cm (3") 2x 15 cm (6") 1x 5 cm (2")

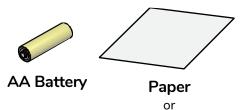
MATERIALS YOU SUPPLY



Recycling Materials What can you use for a Wiggle-Bot body?



Tape



Poster Board (for scribble-bots to draw on top of)

Optional Tools

Modify materials to make even more creative designs with the Maker Tool Set SKU 1823-84

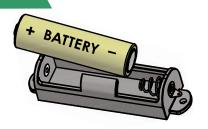


Go Guide Wiggle-Bot



Make It Spin

Put the **battery into** the **holder** with the flat side against the spring.

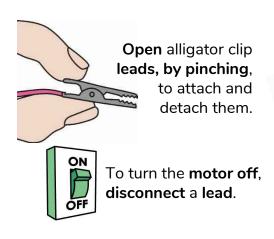


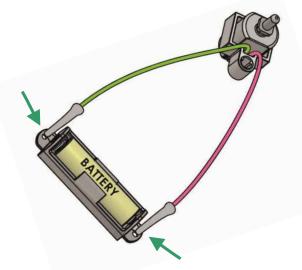
Want to learn more about electricity using your Wiggle-Bot?

Connect the motor leads to the battery holder tabs.

Download the Electricity
Lab at shop4-h.org
Ages 8+

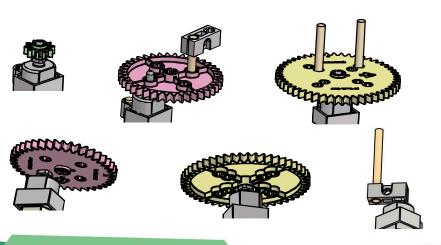
This should turn the motor on.

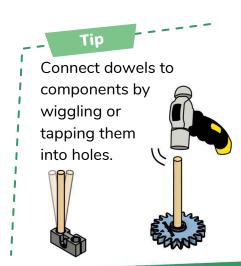




Make It Vibrate

Attach different components to your motor, in different places. Can you make it vibrate slow or fast? Vibration (wobbling) can make your Wiggle-Bot move.





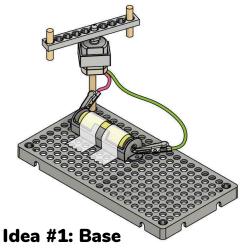


BUILD YOUR BOT

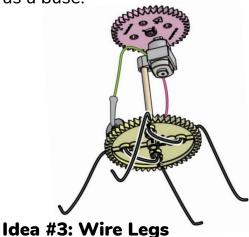
Here are some ideas to get you started.

Your first design may not work, but don't give up! You're doing real engineering!

Keep experimenting and evolving your bot.



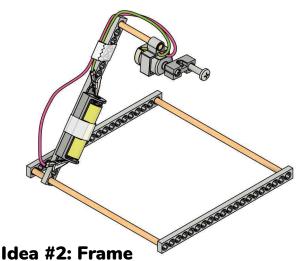
Use hole plates or gears as a base.



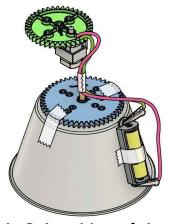
Use steel wire to create legs. Bend them to change how it wiggles.







Make a frame using **strips**, dowels and blocks.



Idea #4: Other Materials Use other materials to add to and change your Wiggle-Bot.







This is an example scribble-bot. Yours

will look different!

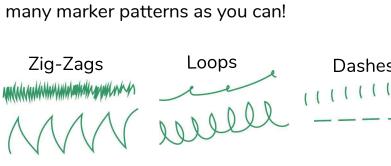
Scribble Bot Challenge

Design a Wiggle-Bot to make artwork!

Attach markers to your Wiggle-Bot, then let it loose on a big piece of paper or poster board!

Redesign your Wiggle-Bot to draw as many marker patterns as you can!





Dots



Wiggle Race Challenge

Solid Lines

Build the fastest Wiggle-Bot!

Race an opponent or try for the shortest time!

Set up a start and finish line, then add yard sticks (or other boundaries) for each racer's lane (to keep your Wiggle-Bot going straight).

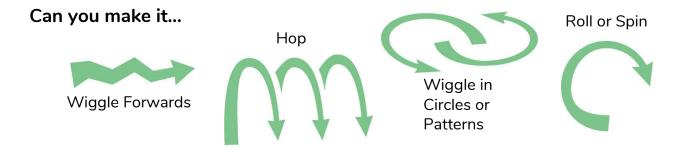
Don't have yard sticks? Poke your Wiggle-Bot to keep it going straight.





Keep Experimenting

Keep improving and changing your design. There is no perfect design; every design can be improved.



What Else Can You Make?

Use Wiggle-Bot components to make your own inventions...



The only limit is your imagination!