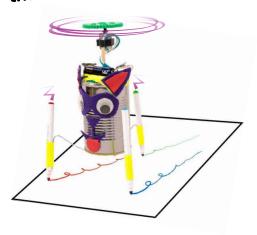
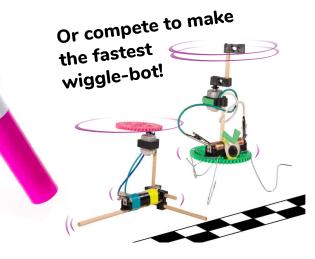


Design and build your own motorized Wiggle-Bot. Evolve your design to spin, wiggle, and more!

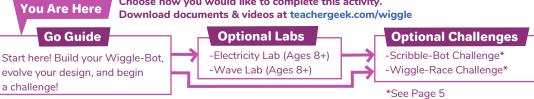
NRRR

Create a scribble-bot that makes art!





Choose how you would like to complete this activity. Download documents & videos at teachergeek.com/wiggle





Supplies

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

WIGGLE-BOT PARTS

Do you have fewer parts? You may have the Basic Wiggle Bots kit. Download the Basic Go Guide at teachergeek.com/wiggle

	/ QTY	
Strips 30 cm (12 in) SKU 1821-31	2	
Hole Plate SKU 1821-32	1	
Screws 25 mm (1 in) SKU 1821-22	2	
Nuts #10 hex sku 1821-25	2	Ø
Gear Set SKU 1821-28	1 set 4 gears	
Blocks SKU 1821-34	3	
Battery Holder SKU 1821-01	1	
Small Motor w/Leads SKU 1821-01	1	
Steel Wire 30 cm (12 in) SKU 1821-72	4	
Dowels various sizes sku 1821-20	8	Dowel Sizes 4x 30 cm (12") 1x 7.5 cm (3") 2x 15 cm (6") 1x 5 cm (2")

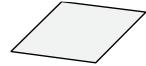
MATERIALS YOU SUPPLY





Markers

Tape





Paper or



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



Maker Tool Set SKU 1823-84



Make It Spin



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

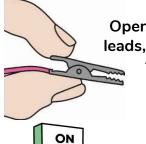


Connect the motor leads to the battery holder tabs. This should turn the motor on.



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

Download the **Electricity Lab at** teachergeek.com/wiggle Ages 8+



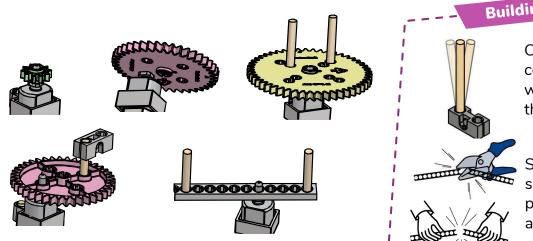
Open alligator clip leads, by pinching, to attach and detach them.



To turn the motor off, disconnect a lead.

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.



Building Tips

Connect dowels to components by wiggling or tapping them into holes.

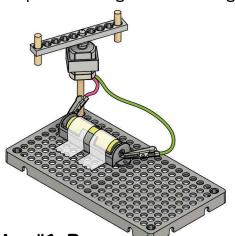
Strips can be cut or snapped into smaller pieces. Multi-cutters also work on dowels.



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.



Idea #1: Base Use hole plates or gears as a base.

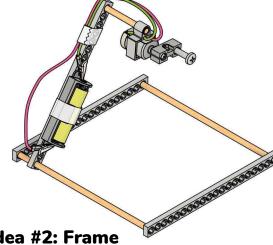


Idea #3: Wire Legs

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

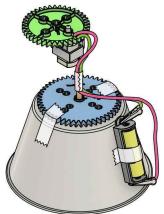






Idea #2: Frame

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

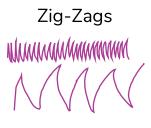
will look different!

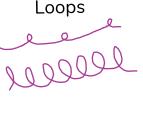
Scribble Bot Challenge

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!





Solid Lines



Dashes (((((((



Want to learn more about waves?

Download the Wave Lab at teachergeek.com/wiggle Ages 8+

Wiggle Race Challenge

Build the fastest Wiggle-Bot!

Race an opponent or try for the shortest time!

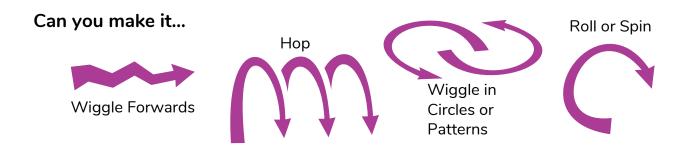
Set up a start and finish line, then add yard sticks (or other boundaries) for each racer's lane (to keep your Wiggle-Bot going straight).

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!