

This is a real engineering project (not a toy). What does that mean? You get to design and build your own unique Super Wiggle-Bot, rather than just following directions.

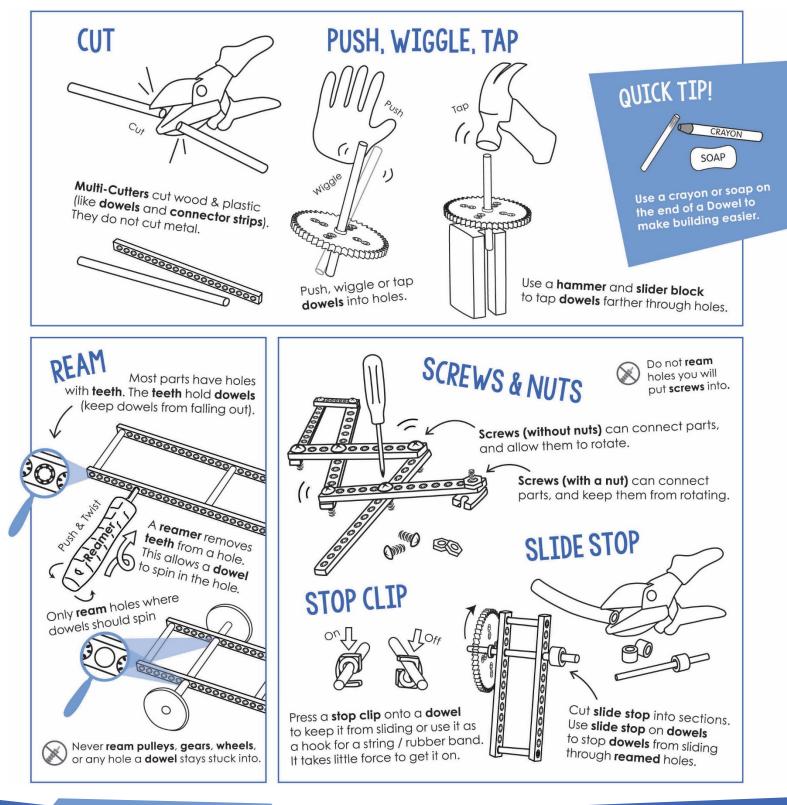
Download classroom documents at teachergeek.com/learn

For use with TeacherGeek <u>Super Wiggle-Bot Activity Pack</u>, or <u>Maker Cart</u> available at **teachergeek.com**

SUPER WIGGLE-BOT BUILD GUIDE TeacherGeek

Designing and building your own unique Wiggle-Bot will take some out of the box thinking. Use the TeacherGeek Quick Start guide below to help you make the most out of your components.

Don't worry, we will help you start your Wiggle-Bot on the next pages.





TEACHERGEEK COMPONENTS

Below is the list of "ingredients" you'll need to build a Super Wiggle-Bot. It includes some extra components to allow you to make it into your own unique design.



TEACHERGEEK TOOLS

This isn't a kit. You're going to really build (cut, hammer, bend) your Super Wiggle-Bot. Here are tools you'll need to get started:



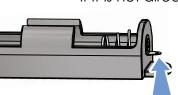
Page 3



LET'S GET STARTED

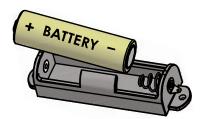


Bend up the tabs on the **battery bolder**, if it is not already bent.





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



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

Download the Electricity Lab at **teachergeek.com/learn**

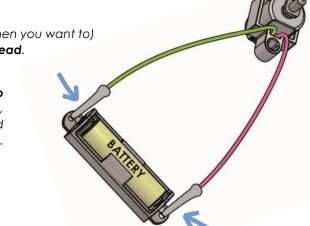


Connect the **motor** leads to the **battery holder** tabs. This should turn the motor on.



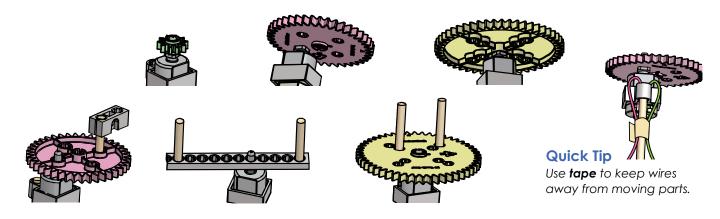
Turn the **motor** off (when you want to) by disconnecting a **lead**.





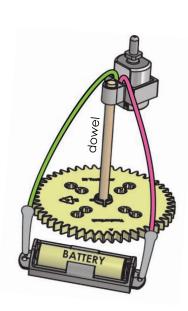
MAKE IT SPIN

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.



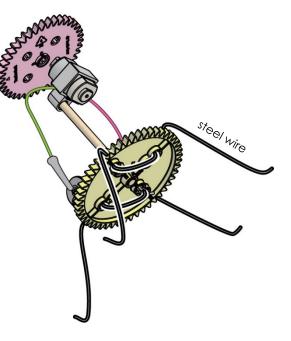


EXAMPLE WIGGLE-BOT DESIGNS



Idea #1

Attach the **motor** to a **dowel**. Then attach the **dowel** to other components, like **hole plates** and **gears**.





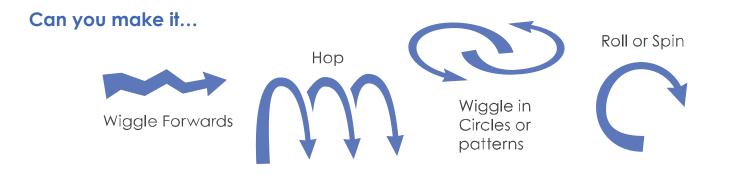
ldea #2

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

Idea #3 Use other materials to add to and change your Wiggle-Bot.

KEEP EXPERIMENTING!

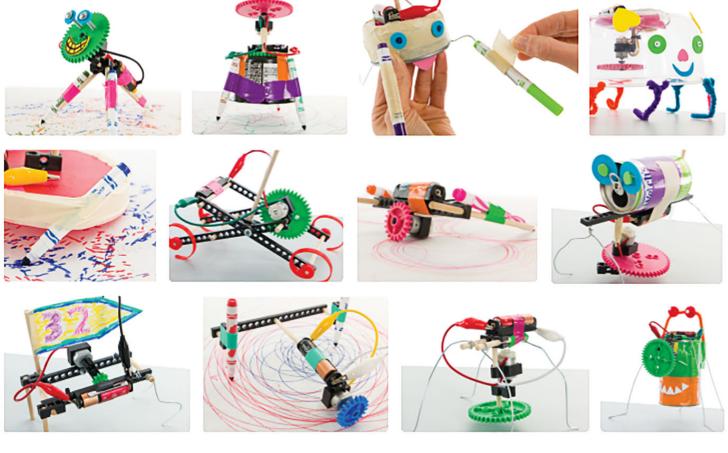
Keep improving and changing your design (there is no perfect design, every design can be improved).





INSPIRATION

Wiggle-Bots can be made in so many ways. Here are some ideas...



SCRIBBLE



Attach markers to your Wiggle-Bot. Draw crazy and fun patterns on a sheet of paper.

RACE



Create a Wiggle-Bot to race down a track. Compete against other Wiggle-Bots or go for your own personal record.

INVENT



Use Wiggle-Bot components to make your own inventions: a fan, wiggling pen, boat, or something else.