

Your
ULTRA-SUCCESSFUL
incredibly
affordable
Elementary
STEM/Maker
SOLUTION



Maker/STEM Cart 2.0 Manual



CONGRATULATIONS!

This cart is going to supply your students/kids with incredible experiences, unlike anything else they have ever done. We've tried to make "getting started" as easy as possible. Follow these few easy steps below, and you'll be making projects in no-time.



START WITH THE EMPTY CART FACING YOU.

TOOL SIDE (TO THE LEFT WHEN FACING THE CART)

BIN SIDE (TO THE RIGHT WHEN FACING THE CART)

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1. Remove the bag of pegs and a stubby screwdriver from Box 1 and attach as shown below. *The tool side is already assembled for you!*

TOOL SIDE



5 In. 30 Degree Bend Rod

5-3/4 In. Double Rod

3 In. Single Rod

6 In. Single Rod



Please note: screws attach below the hooks.

Clear bins are found in the largest colored bins on the Maker Cart.

BIN SIDE

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- 2.** Remove the bag with the Sign Posts from the cart. Slide the post onto the black plastic mount. In the bag with the posts will be the mounting screws and an Allen wrench. Place the screws into the hole at the base and use the Allen wrench to tighten them.

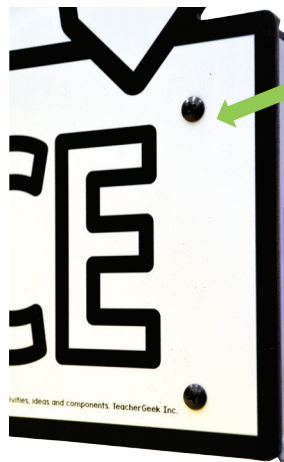


NOW ON TO STEP 3!

- 3.** Remove the sign hardware from Box 1, there will be 4 black screws along with 4 wing nuts. Hold the sign up and place all 4 screws through the holes in the sign and then through the holes in the makerspace posts. Take the wing nuts and screw them onto the screws. Now that your sign is attached you can take the crayons provided and color the sign whatever colors you want!

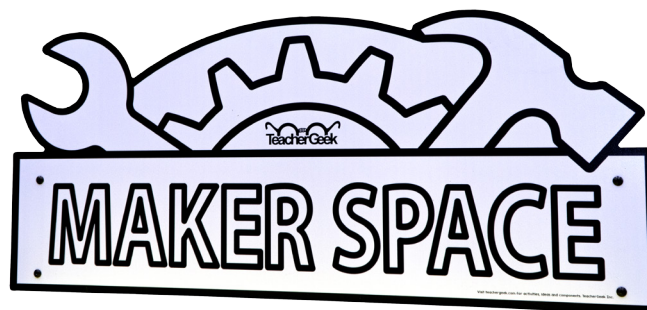


Holes for mounting the sign to the cart



Place the screws through the sign and cart

Tighten down the wing nuts to secure the sign

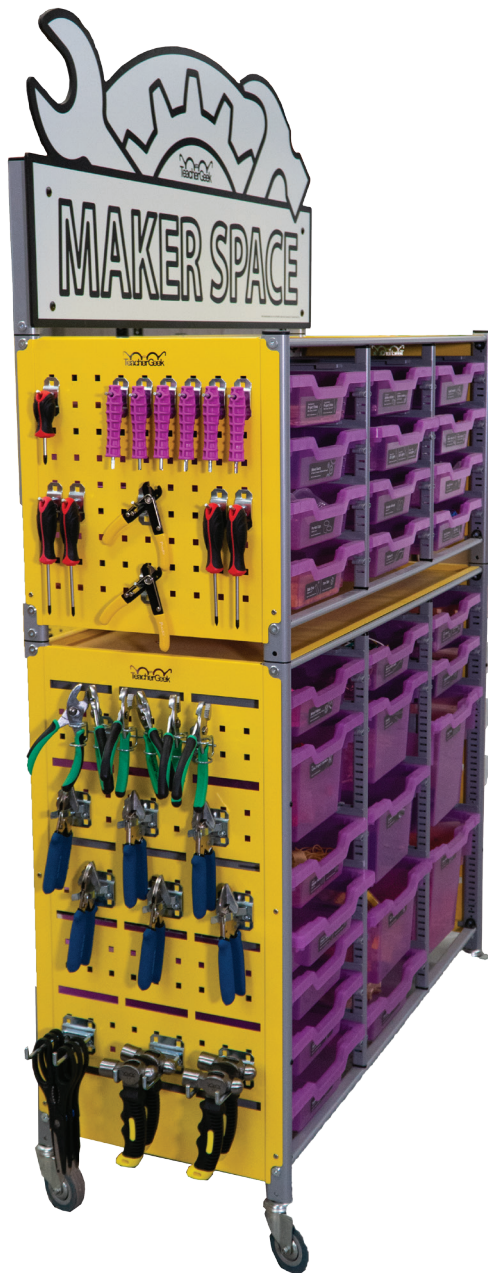


The signs are dry-erase, color and recolor as many times as you like with dry-erase markers or crayons. Dry Erase Bright Crayons are provided with your Maker Cart!

- 4.** Now that your Maker Cart is assembled; fill up your bins with Teachergeek components and you are ready to GO!
(You will have more components than will fit in some bins save the extras to refill your cart later.)



Be aware that the bridge nuts and screws have their own bin and bags provided.
(You can find them in Box 2)



TOOL SIDE

(LEFT SIDE WHEN FACING THE CART)

Fill pegs with tools for easy student/kid access as shown above.



BIN SIDE

(RIGHT SIDE WHEN FACING THE CART)

Fill pegs with components as shown: vinyl tubing, wire rolls, string, and tape. Hang bins and fill them with the parts provided.

ALL DONE!

Your Maker Cart is fully assembled and ready to use!
Keep the extra components handy to refill your cart.

Reorder supplies from teachergeek.com



GET BUILDING

With so many different TeacherGeek components at your fingertips, design and build your own unique engineering inventions or follow along with our TeacherGeek Build Guides.

Included with every Maker Cart are FREE editable documents to enhance your Maker Cart experience. Exclusive to the TeacherGeek system, these documents will provide hours of classroom and maker space activities at every age and grade level (available for Microsoft Word and PDF). Find your Maker Cart documents at: teachergeek.com/maker

BUILD GUIDES

TeacherGeek Build Guides provide step-by-step assembly instructions for self-driven learning and call-outs for innovative creativity and independent thinking. Students/kids learn hands-on subjects like electromagnetism, circuitry, physics, math, the list goes on and on.

LAB ACTIVITIES

TeacherGeek activities really work! Drill home science, technology, engineering, and math concepts in TeacherGeek Lab Activities. Learn what STEM can do in the real world. Test builds and answer key questions about different topics. Don't worry, Answer Keys are password protected.



ANSWER KEY PASSWORDS FOR LAB QUESTIONS

“Catch the Bug” Password:
B18-CH39
All other Passwords:
Pascal7

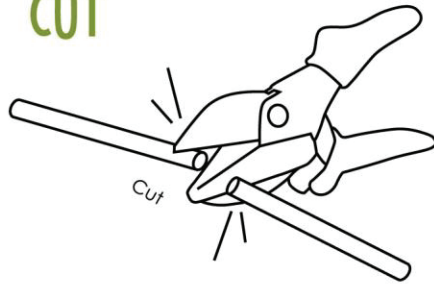
DESIGN & ENGINEERING CHALLENGES

Take your TeacherGeek Builds to the next level! Kick it up a notch and challenge your students/kids to develop and improve their builds in the Design & Engineering Challenge Cycle: Ask, Imagine, Plan, Create, Improve, and Repeat. There is no perfect solution and every design can be improved.

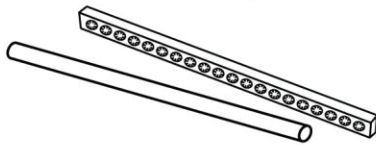
The possibilities are endless!

Built it, try it, change it. Design and engineer your most imaginative mechanisms with TeacherGeek™ components. Combine them with recycling bin and other materials.

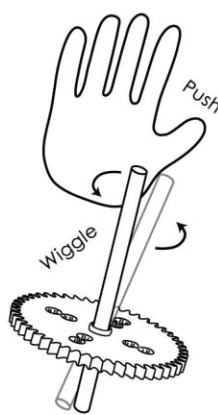
CUT



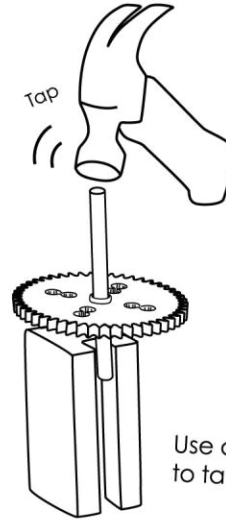
Multi-Cutters cut wood & plastic (like **dowels** and **connector strips**). They do not cut metal.



PUSH, WIGGLE, TAP



Push, wiggle or tap **dowels** into holes.



Use a **hammer** and **slider block** to tap **dowels** farther thru holes.

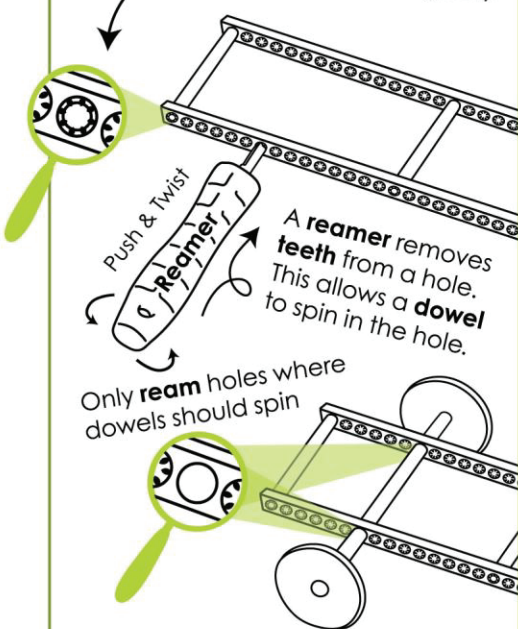
QUICK TIP!



Use a **crayon** or **soap** on the end of a **dowel** to make building easier.

REAM

Most parts have holes with **teeth**. The **teeth** hold **dowels** (keep dowels from falling out).



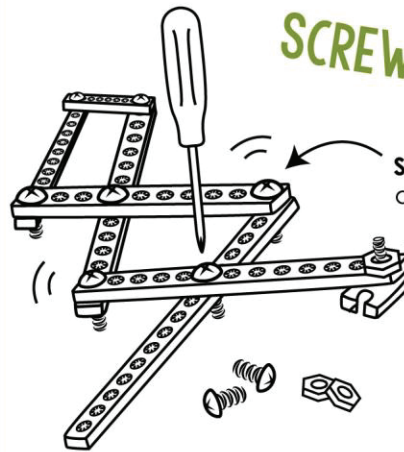
A **reamer** removes **teeth** from a hole. This allows a **dowel** to spin in the hole.

Only **ream** holes where dowels should spin

Never **ream** **pulleys**, **gears**, **wheels**, or any hole a **dowel** stays stuck into.

SCREWS & NUTS

Do not **ream** holes you will put **screws** into.



Screws (without nuts) can connect parts, and allow them to rotate.

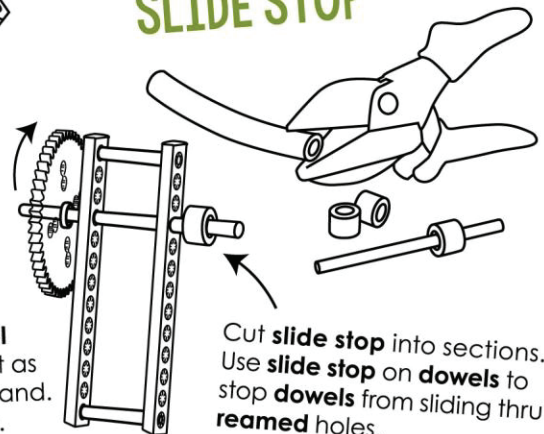
Screws (with a nut) can connect parts, and keep them from rotating.

STOP CLIP



Press a **stop clip** onto a **dowel** to keep it from sliding or use it as a hook for a string / rubber band. It takes little force to get it on.

SLIDE STOP



Cut **slide stop** into sections. Use **slide stop** on **dowels** to stop **dowels** from sliding thru **reamed** holes.

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CONTACT US



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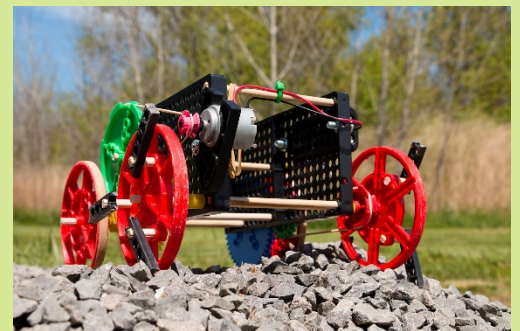
TeacherGeek, Inc.
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Holley, NY 4470
United States

HAVE QUESTIONS?

Send us an email or give us a call, if you have any questions. We want to do all that we can to make sure your TeacherGeek Maker Cart is an extraordinary experience.

IT'S OKAY TO BE A SHOW-OFF

We would love to see pictures or videos of the projects you've created with your TeacherGeek Maker Cart. Your submission may even be featured in future TeacherGeek documents!



RE-ORDERING SUPPLIES

Reorder super awesome bulk TeacherGeek components to refill your cart for even more making tinkering fun! Want to plan for specific TeacherGeek activities? Use our re-ordering spreadsheet to help calculate what supplies you'll need. It's available at teachergeek.com/maker. If you need any assistance, please call customer service.

WARNINGS

Educational product, not a toy. CAUTION: Adult supervision required for children under 13.

Components:

Caution: Choking hazard. Small parts. Keep this bag away from babies and children. Not intended for children under 5 years. Not a toy. Educational product. Made by TeacherGeek Inc. in NY USA 888-433-5345 sales@teachergeek.com

Tools:

CAUTION Cut Hazard: Product has functional sharp edges. Contact may result in injury. Always keep blades away from fingers and body. Handle with care. Use with adult supervision. Wear safety glasses when using. Not intended for ages 12 and under. Warning: Choking hazard. Keep plastic bag away from babies and children.

COMPONENTS INCLUDED

You'll find all of the standard Maker Cart Components on the following page. This spreadsheet is also available online at teachergeek.com/maker.