

then turn it into your own unique design.

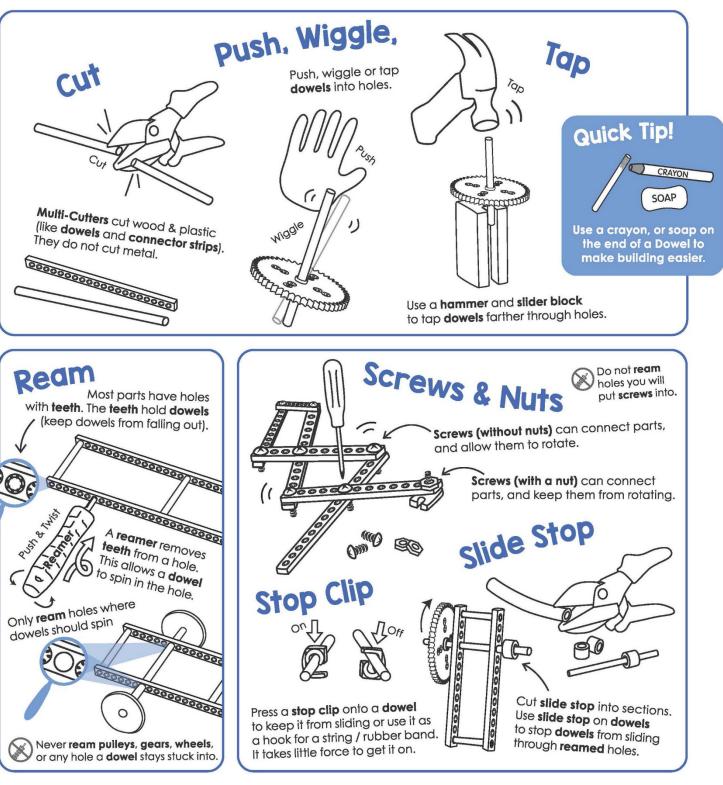
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For use with TeacherGeek Wind Lift Activity Pack, or Maker Cart. Find documents and activity materials at teachergeek.com.



## Wind Lift Build Guide

Teache







## TeacherGeek Components

For One Wind Lift

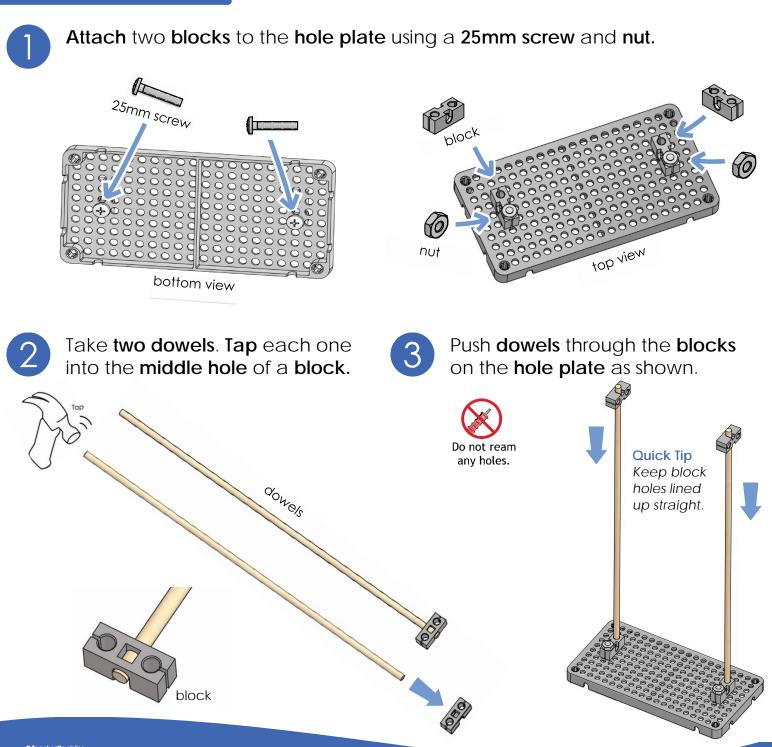
Below is the list of "ingredients" you'll need to build one Wind Lift. It includes some extra components to allow you to create your own unique design.







Let's Get Started

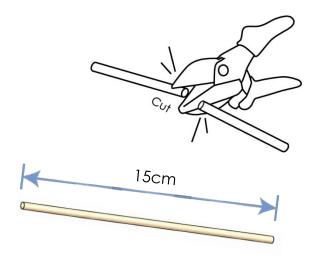


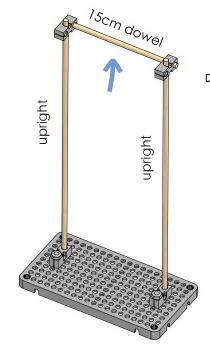


Cut a 15cm (4") dowel.



Insert the dowel into the block holes in the uprights as shown.





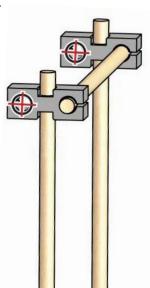


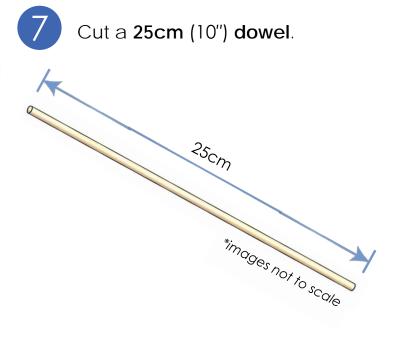


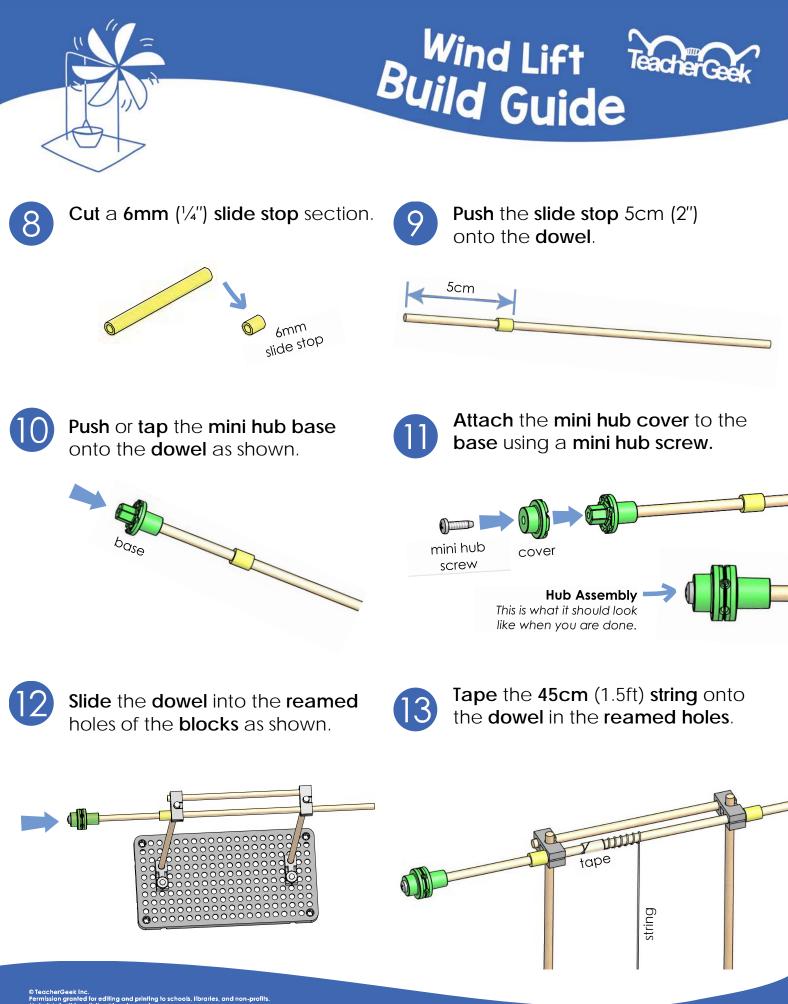
Ream the two holes marked with the  $\oplus$  symbol.



**Quick Tip** Be sure to ream holes very well.







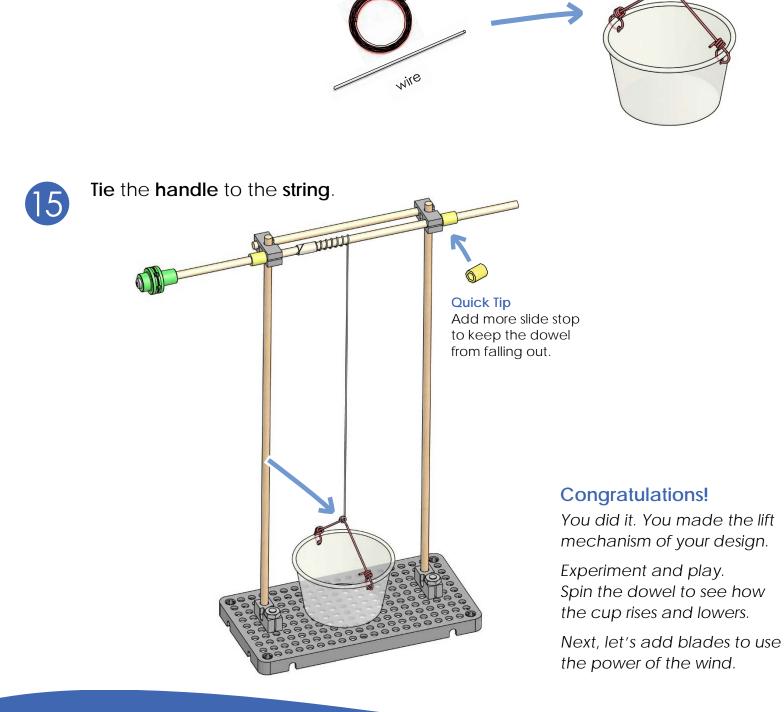
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Make a handle for the portion cup out of wire. Poke two holes with scissors or a screwdriver to tie the wire through.







## Blade Designs

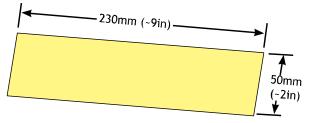
Now it's time to make your blades. Make the example blades shown below. Then, in the Engineering Challenges, make them into your own unique design.



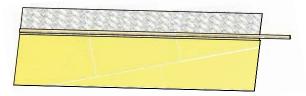


Tape your **recycling materials** (cardboard, card stock, cereal boxes, etc.) to the **skewers** as shown below.

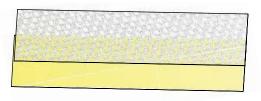
a. Cut a section of **recycling material**. This will be one of your **blades**.



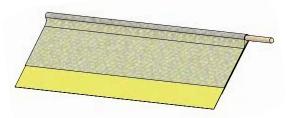
c. Place a **stick** at the edge of the **blade**, overhanging to one side.



b. Place **tape** half over the edge of the **blade**.



d. Fold the **tape** over the **stick**. **Press** to secure tape.





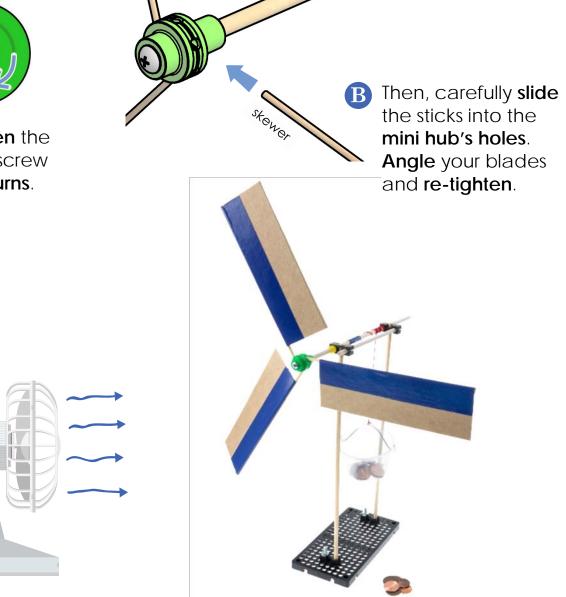


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Loosen the mini hub screw about 1 turn to allow the project sticks to slide in.



A First, **loosen** the mini hub screw by **1 full turns**.





If you are going to do the optional *Wind Lift Lab*, now's the time!

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