QUICK-START GUIDE





Built it, try it, change it. TeacherGeek™ components allow you to design and engineer your most imaginative mechanisms. Combine them with other materials and products. More resources are available at teachergeek.com.

DOWELS

Dowels vary in diameter. Some may be too large or small to use. The ends of dowels may taper and need to be cut off to fit tightly into holes.

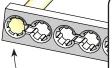
CUTTING

Dowels and Connector Strips can be cut with a multi-cutter (best method), saw, side cutters or pruning shears. Wear safety glasses when cutting.

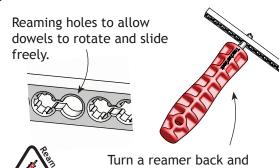


Multi-Cutters

HOLES & REAMING



Components come with holes that dowels press securely into.

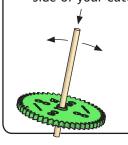


Turn a reamer back and forth through a hole.

PUSH, WIGGLE, TAP

Push dowels into holes by:

- Wiggling and pressing with your hands
- Tapping dowels with a hammer or the side of your cutter.



Tip: Rub a dowel with soap, wax or a crayon to allow it to slide easier into and out of holes.



WARNING!!

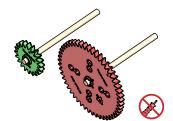
Most holes should not be reamed. Do not ream holes which dowels should stay pressed into.

EXAMPLE ASSEMBLY

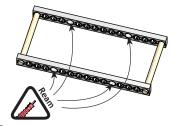
An example mechanism with two gears that turn together in a frame.



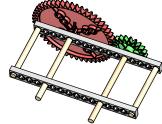
1 Connector strips and dowels are cut. Then they are assembled to make the frame.



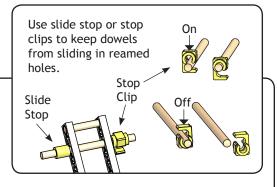
2 Dowels are cut to make axles and pushed into gears.



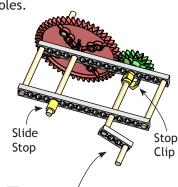
3 Holes in the frame are reamed for the gear axles to rotate in.



4 Gear axles are placed through the reamed holes.



5 Slide stop and a stop clip are put on axles to keep them from sliding out of the reamed holes.



6 Cranks are attached.