

SET-UP GUIDE ATWOOD'S MACHINE

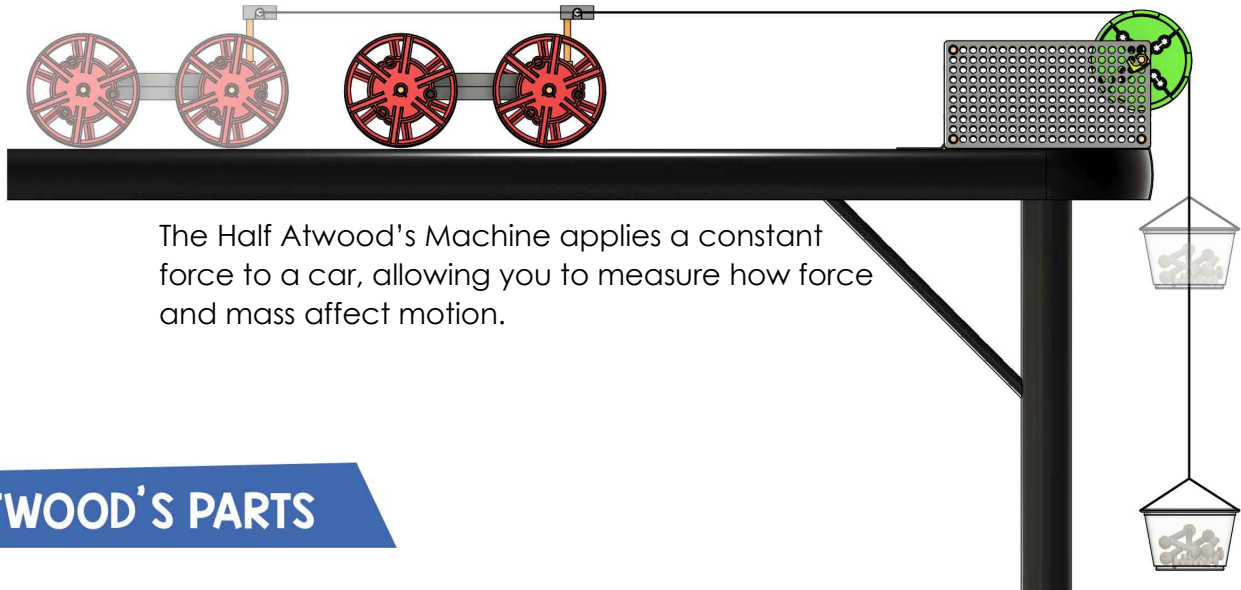


Build a Half Atwood's Machine to use with your TeacherGeek Car.

- Sail Car • Electric Race Car •
- Rubber Band Racer •

Then complete the Half Atwood's Lab!

Download the lab at teachergeek.com/atwoods



The Half Atwood's Machine applies a constant force to a car, allowing you to measure how force and mass affect motion.

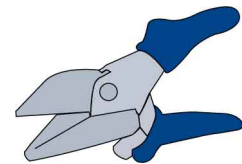
ATWOOD'S PARTS

TeacherGeek Parts

NAME	QTY	PICTURE
Hole Plates SKU 1821-32	2	
Pulley Set SKU 1821-29	1 set	
Dowels 30cm (12in.) SKU 1821-20	2	
Stop Clips SKU 1821-60	2	
Screws 25mm (1in.) SKU 1821-22	10	

Order the parts to build this at teachergeek.com

TeacherGeek Tools



Multi-Cutter
SKU 1823-81

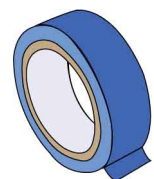
Other Supplies



String



Plastic Cup



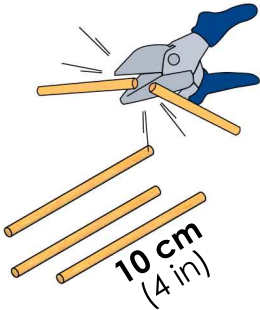
Tape

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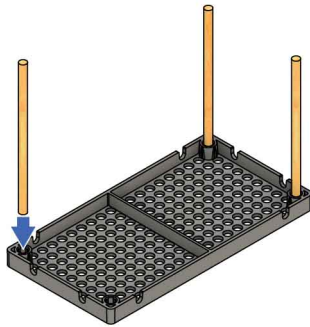


BUILD THE BASE

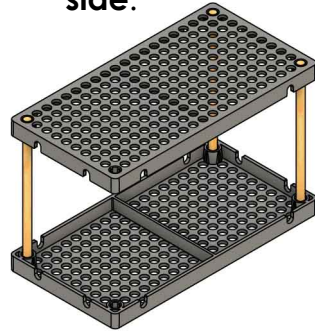
- ① Cut three 10 cm (4 in) dowels.



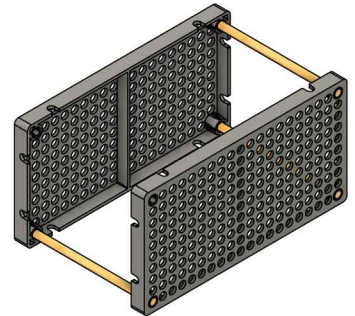
- ② Wiggle the cut dowels into a hole plate's corner holes.



- ③ Push a hole plate onto the other side.

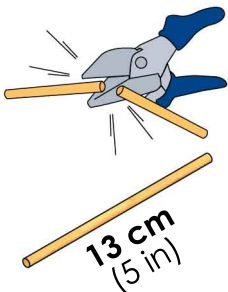


- ④ Your base is done.

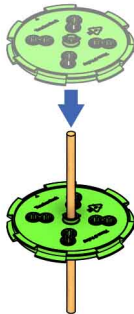


ADD THE PULLEY

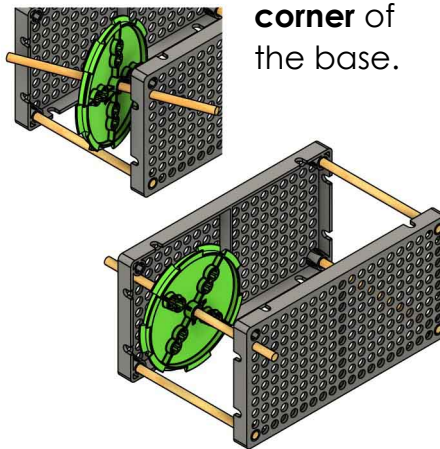
- ⑤ Cut a 13 cm (5 in) dowel.



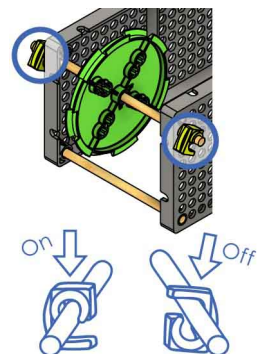
- ⑥ Wiggle the largest pulley into the center of the dowel.



- ⑦ Slide the pulley into the hole under the empty corner of the base.

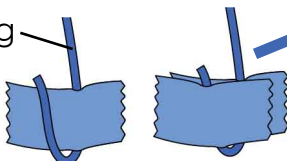


- ⑧ Snap a stop clip on each side of the pulley's axle.



MAKE THE HANGER

- ⑨ Tape a 20 cm (8 in) piece of string to the cup, as shown.



- ⑩ Tie a 100 cm (39 in) string to the string from Step 9.

- ⑪ You are now ready to begin the lab! The lab will cover attaching the car and calibrating the machine.

Download [Atwood's Lab](http://atwood's Lab at teachergeek.com/atwoods) at teachergeek.com/atwoods