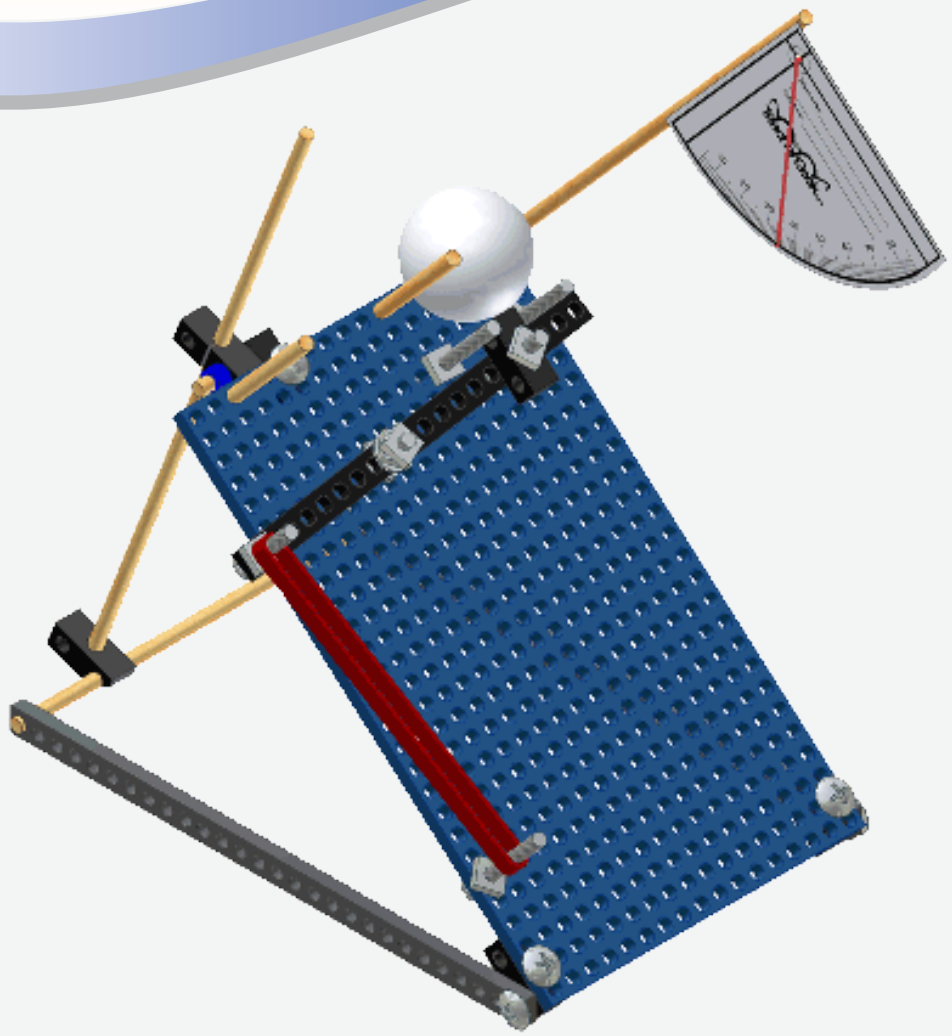
Big Blue Launcher

Part 2: Example Launcher Mechanism

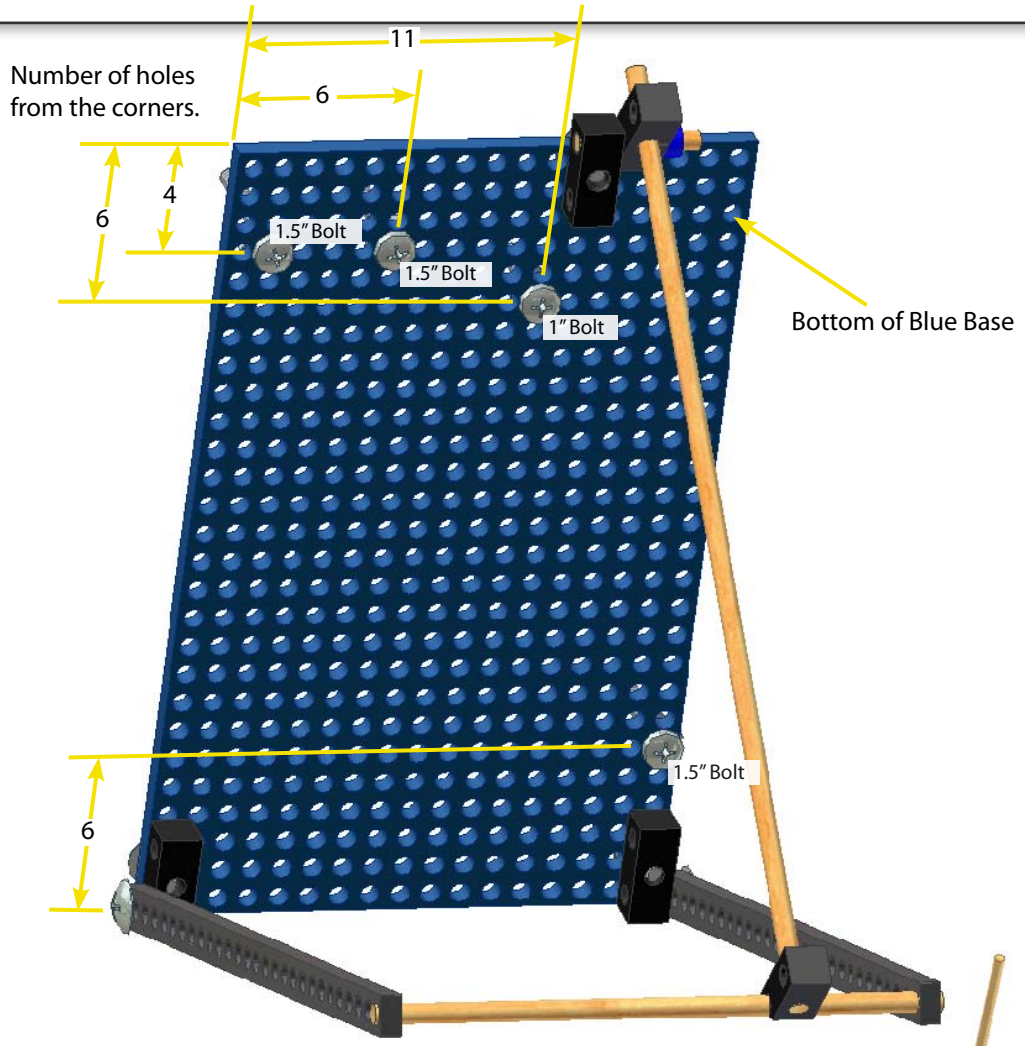


This guide takes you through the process of building an example launcher mechanism to fit on the "Big Blue Launcher Base." The launcher base must be assembled prior to building the mechanism. Instructions for building the launcher base can be downloaded: teachergeek.org/blue_base.pdf

TeacherGeek.com

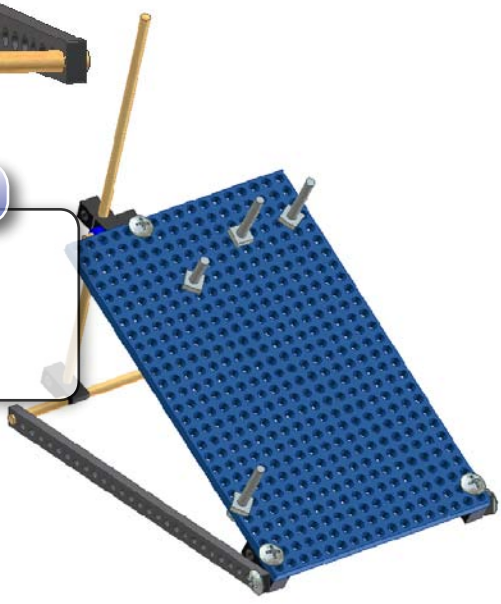
Step 1: Place Bolts Into The Base

Place three 1.5" bolts and one 1" bolt up through the base where indicated below. Secure them with nuts (as shown in Step 2)



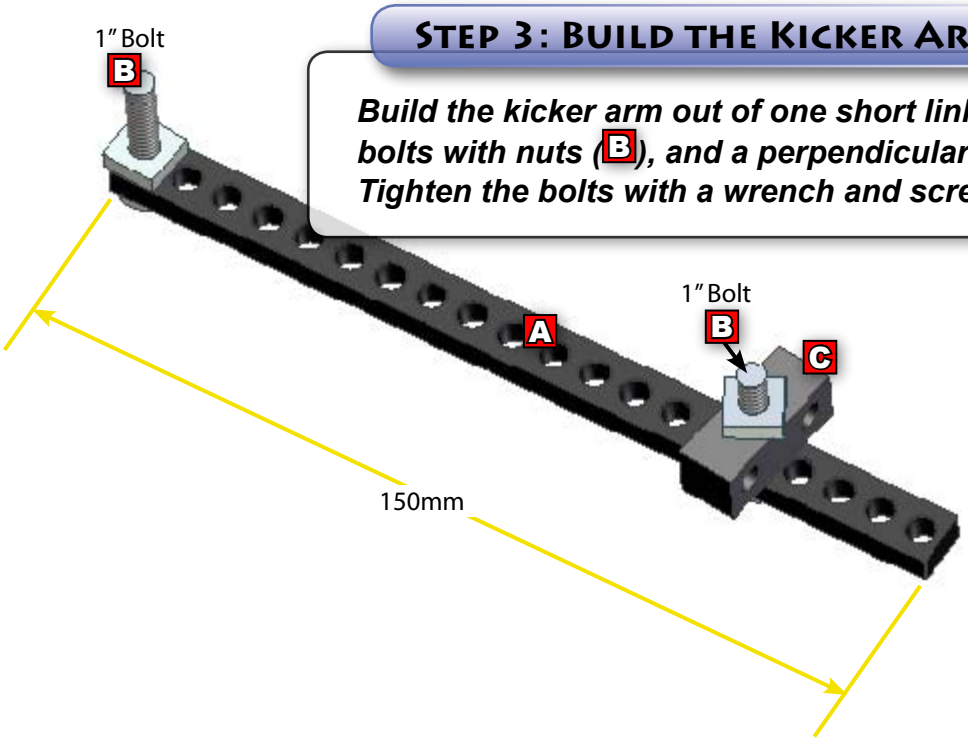
Step 2: Fasten The Bolts to the Base

Use  nuts to fasten the bolts from step one to the base. Tighten the nuts using a wrench and phillips head screwdriver.



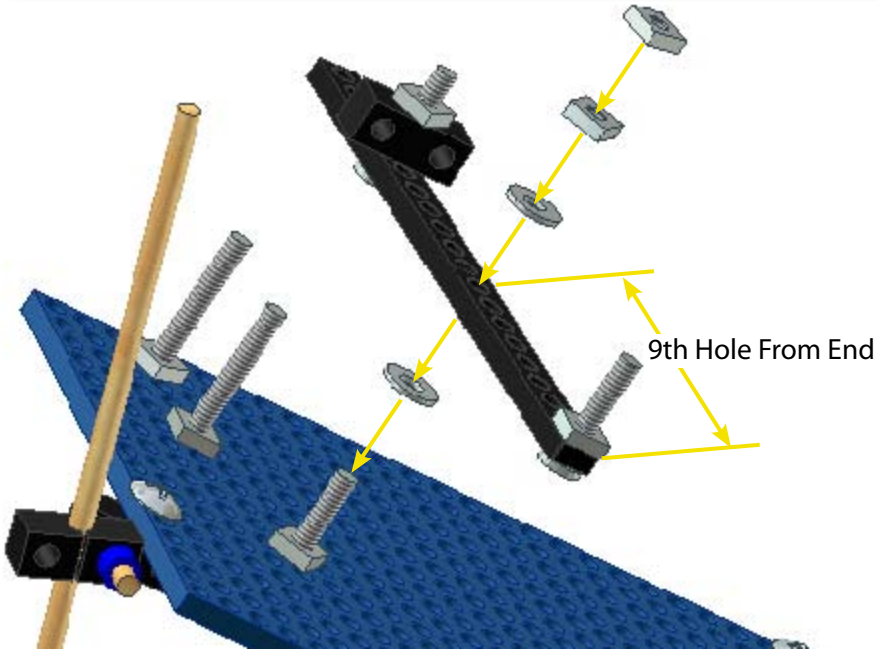
Step 3: Build the Kicker Arm

Build the kicker arm out of one short link-strip (A), two 1" bolts with nuts (B), and a perpendicular adaptor (C). Tighten the bolts with a wrench and screwdriver.



Step 4: Attach The Kicker Arm

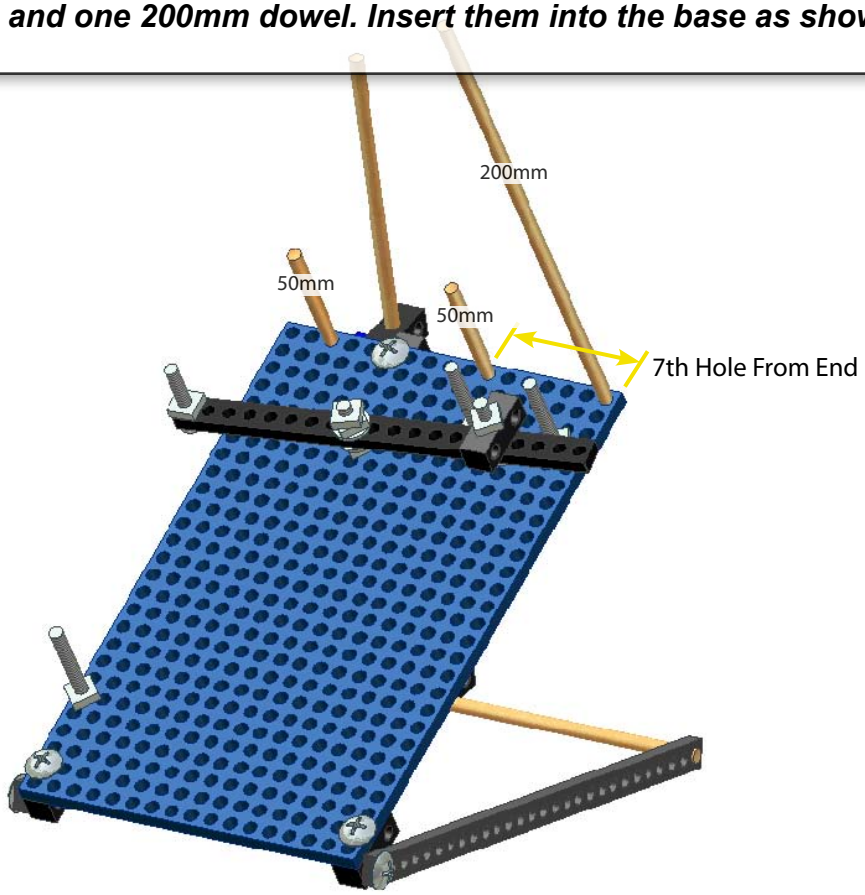
Attach the kicker arm to the base using two washers and two nuts. Keep the nuts loose on the kicker arm (allowing it to pivot freely).



Step 4, Finished

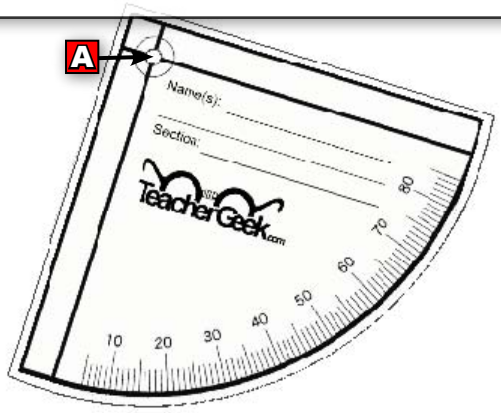
Step 5: Cut and Insert Dowels

Cut two 50mm dowels and one 200mm dowel. Insert them into the base as shown.



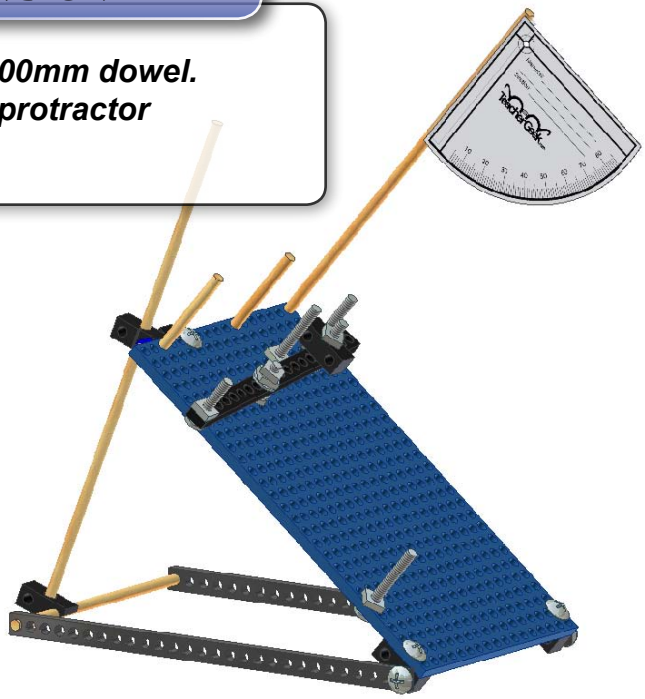
Step 6: Cut The Protractor

Cut the protractor from a sheet of heavy paper. Use a pen or pencil to punch a hole (A) in the corner where the lines cross.



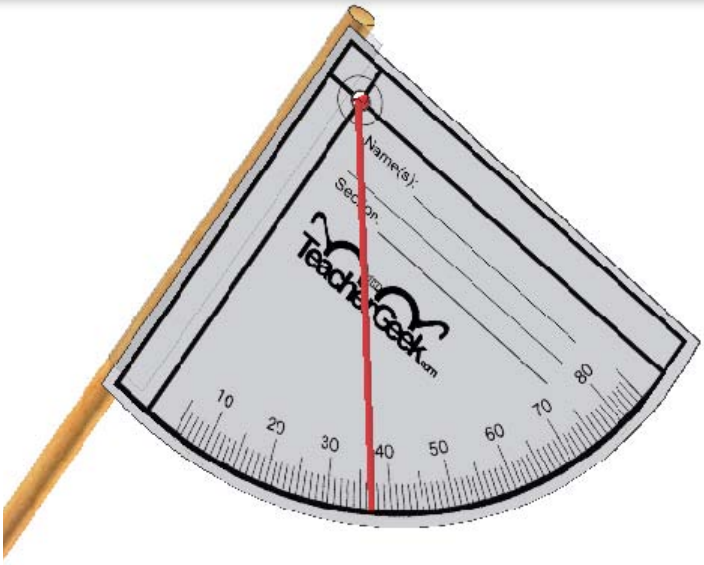
Step 7: Attach The Protractor

Tape the protractor on the top of the 200mm dowel. Make sure the lines on the side of the protractor are parallel with the dowel.



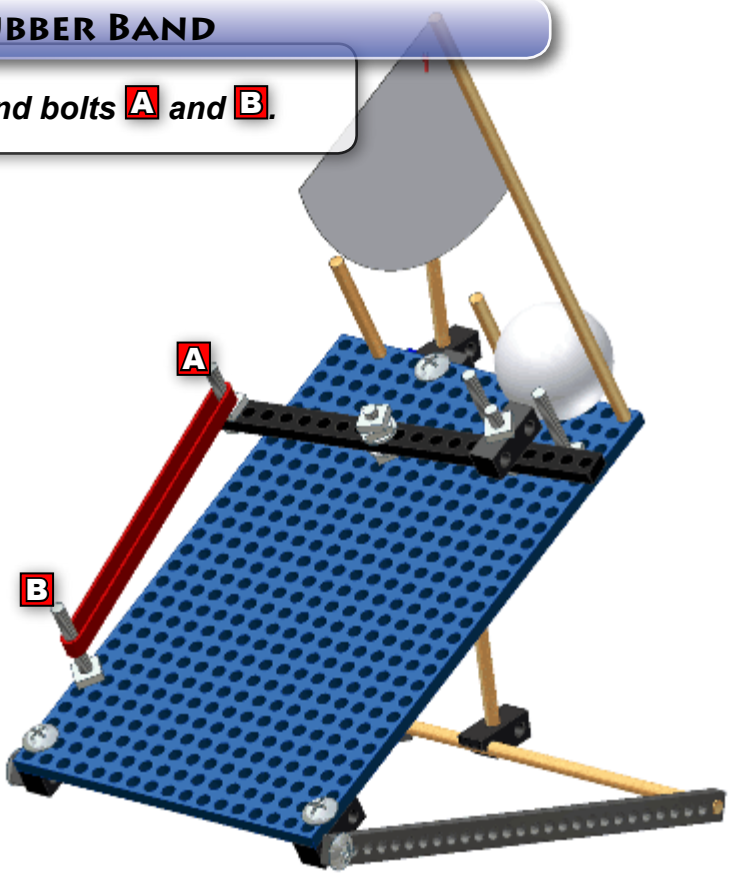
Step 8: Cut and Attach The Wire

Cut a 75mm section of wire. Bend the end of it over and hook it onto the protractor hole. Make sure the wire can swing freely.



Step 9: Attach The Rubber Band

Place a rubber band around bolts A and B.



You're Ready To Start Launching.