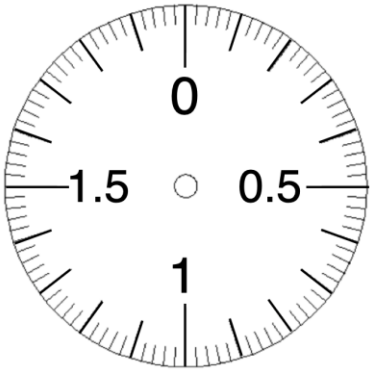
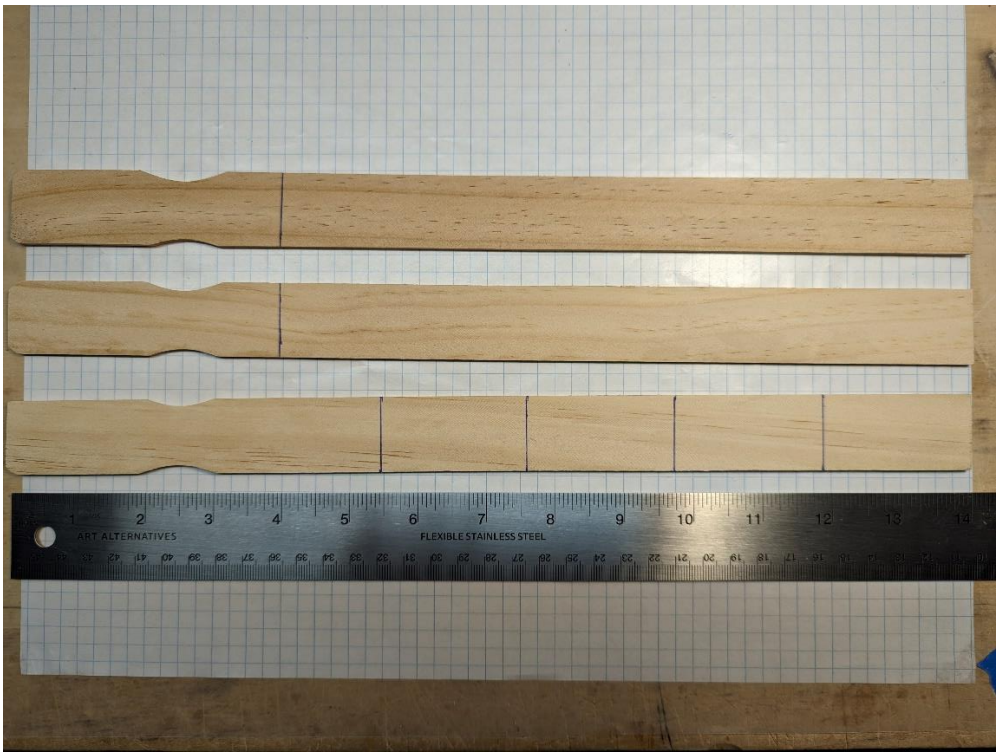
Super Simple Torque Meter – Brought to you by NFFS in partnership with Science Olympiad
September 18, 2023

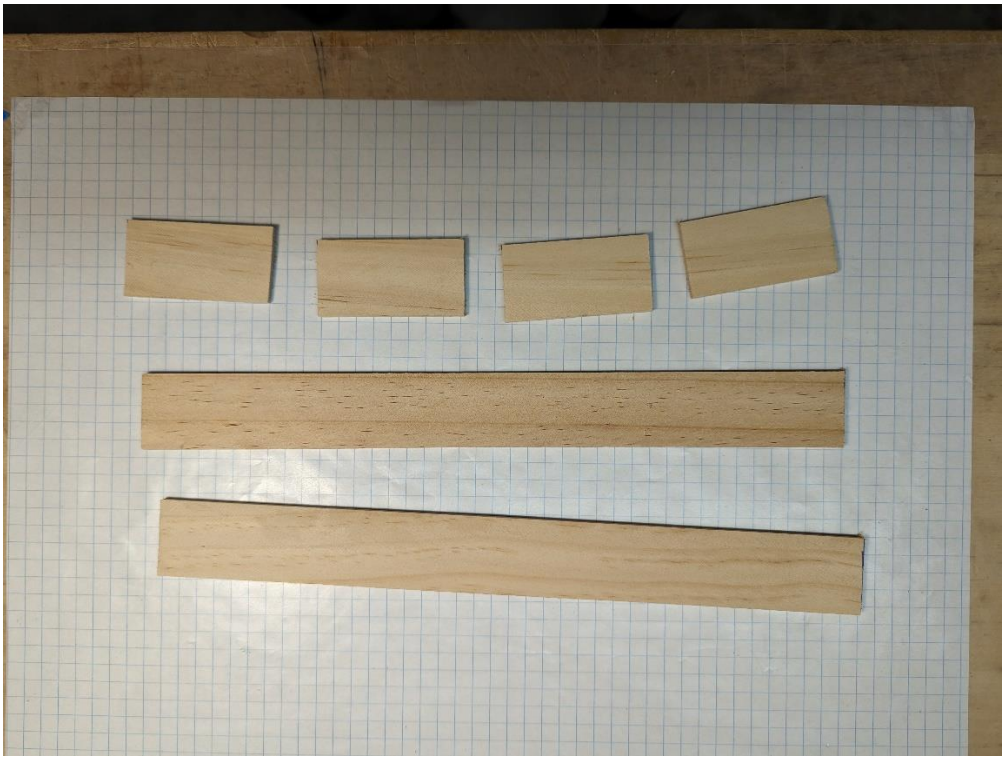
These pictures show construction steps not shown in the “NFFS Super Simple Torque Meter” build video here: https://youtu.be/HccYaD_AjQg

Torque Meter dial face. It should print out with the dial face 1.875” in diameter. Cut a 2” square around it as you can see in the Torque Meter construction video. Attach to the Torque Meter front face plate with glue stick.

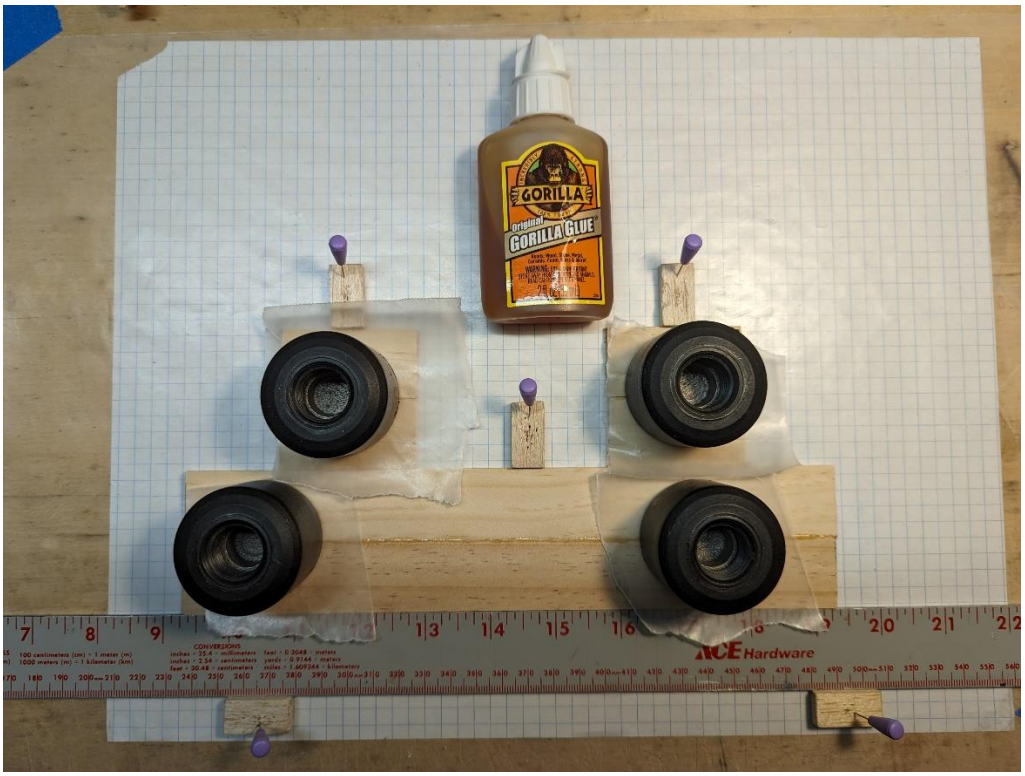


Cutting and gluing paint stir sticks to form the base, front and back plates and support triangles for the torque meter. First set of pictures shows paint stir sticks that are 14” long and 1.0625” wide. Torque meter base is 10” long. Four parts to form front and back plates are 2.0625” long. See below if you have 12” sticks.

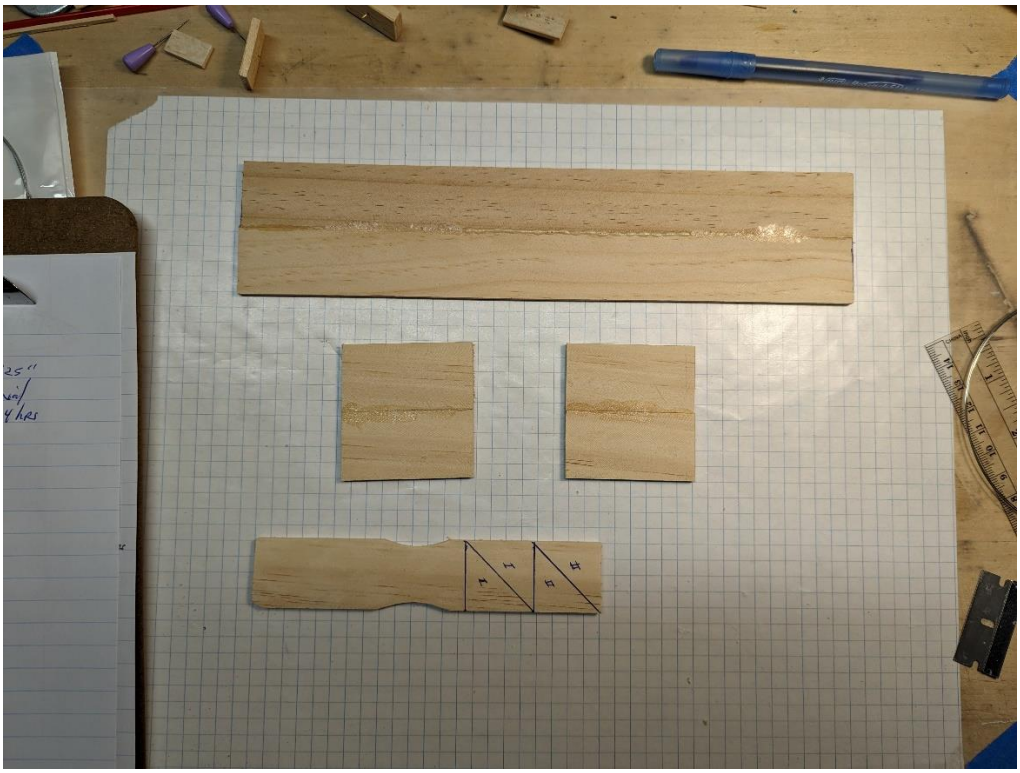


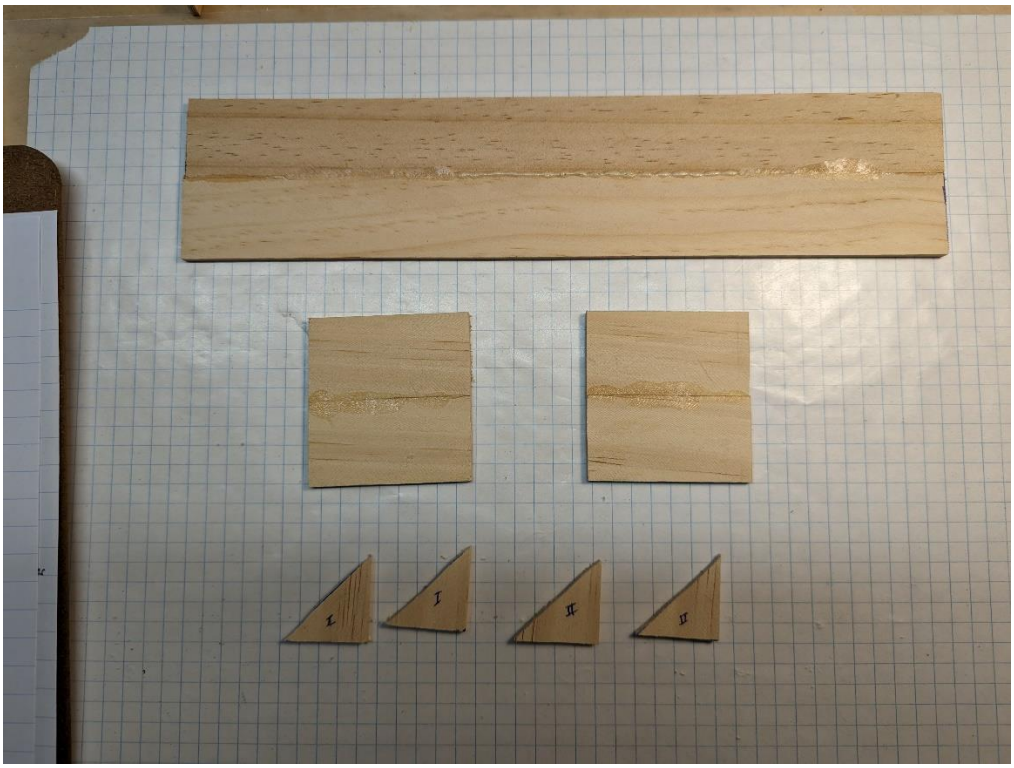


Brace parts together with pin blocks and a straight edge for strong and gap free glue joints.

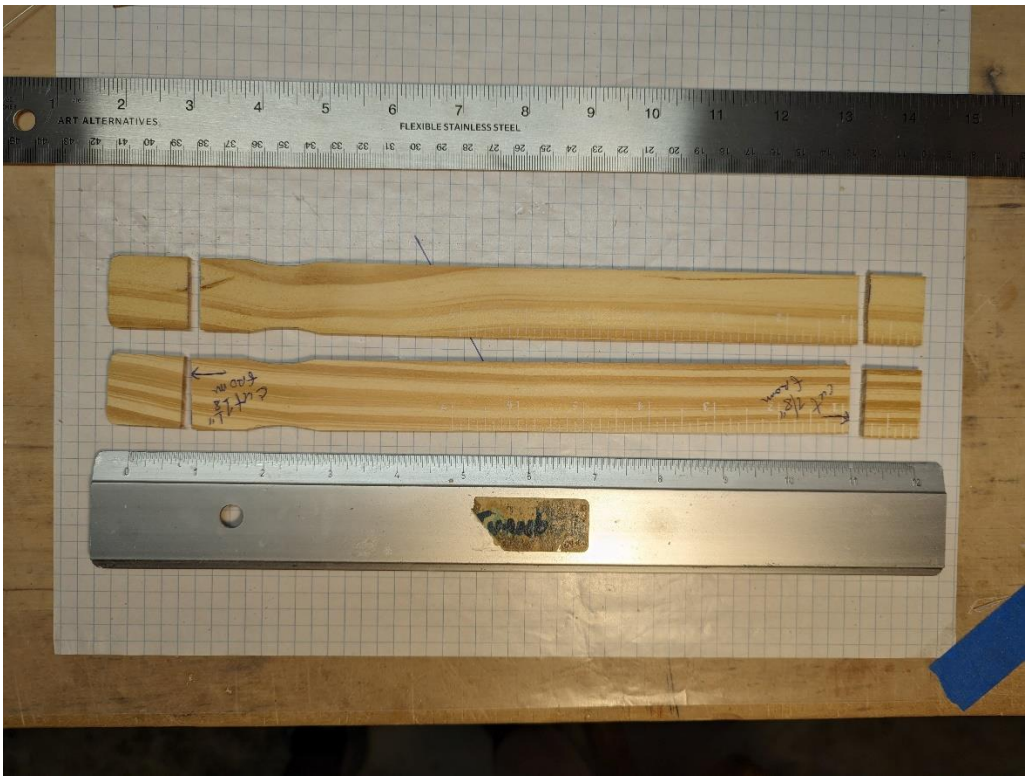


Cut support triangles as shown in the pictures below





If your paint stir sticks are 12” long, cut 10” long base as shown in this picture. The small curved cut outs will not cause and issue if they are not at the end of the 10” base. These sticks are 1” wide, so you can make the front and back face plates 2”x2” (after gluing two 1” wide pieces together) instead of 2.125”x2.125” as noted in the video.



After meter is constructed, apply additional glue to joints as shown to make it nice and strong.