

TABLE CONSTRUCTION

The Robot Game takes place on a specially designed table, so you'll need to build one to practice on if you don't already have access to one. With safety, weight, height, and cost in mind, a simple design is offered here, but as long as your surface is smooth, and your border walls are located properly, how you build the understructure is up to you. The construction is simple, but does require some wood-working skills.

At a tournament, two tables are placed back to back, but you only operate on one table, so you only need to build one table to practice on. Since a tournament setup has a double wall at the interactive area where the two tables meet, practice tables need an extra wall of type **B** on the corresponding side. So here are the instructions for building one "half-table" including a double north wall:

Materials

Material
Field Setup Kit (mission model LEGO elements, mat, CD, Dual Lock)
sanded plywood (or other very smooth board) 96" X 48" X 3/8" or thicker
two-by-four, 8' (actual cross-section = 1-1/2" by 3-1/2")
two-by-three, 8' (actual cross-section = 1-1/2" by 2-1/2")
flat black paint
coarse drywall screws, 6 X 2-1/2"
saw horses, about 24" high and 36" wide

Parts

Part	Make From	Dimensions	Paint	Quantity
table surface (A)	plywood	96" X 48"	no	1
long border wall (B)	two-by-four	96"	yes	3
short border wall (C)	two-by-four	45"	yes	2
stiffener (D)	two-by-three	48"	no	4
saw horse	purchase	H » 24" W » 36"	no	2

Assembly

Step 1 - Determine which face of the plywood (A) is least smooth, and consider that the bottom face. On the bottom face, locate, clamp, and screw on the stiffeners (D) (about every 18 inches). Be sure screw head tops are flush. Sand any splinters.

Step 2 - On the top face of the plywood, locate, clamp, and screw on the border walls (B,C) around the top perimeter. The wall-to-wall dimensions must measure $93\pm 1/8"$ by $45\pm 1/8"$ ($2362\pm 3\text{mm}$ by $1143\pm 3\text{mm}$).

Step 3 - With the help of another person, place this table top on short saw horses (or milk crates, or anything else short and solid).

