

CUBMOBILE

Saturday

October 23, 2021

8:30am

\$8

**First Presbyterian Church
900 Jordan St. Shreveport**



Prior to the race all cubmobiles will be inspected. Careful inspection of the steering blocks, seat belts, and brake will be performed. Please pay close attention to these details so all cubmobiles will be allowed to race! Cubmobile specifications are below:

NO CONNECTIONS MAY BE SECURED WITH NAILS! Fasteners must be bolts, lag screws, screws, or wood screws.

The car's frame must be **MADE FROM 2X6 and 2X4 LUMBER AND FOLLOW THE DIMENSIONS OF THE ATTACHED DIAGRAM.** Beams must be structurally sound and have **NO SPLINTERS!** The backrest must be braced.

THE CAR MUST HAVE A SEAT BELT of some type to protect the driver from injury if a sudden stop occurs and this belt must be at least 1/2" wide (to avoid undue abdominal local pressure). Thick rope seat belts are permitted.

THE DRIVER MUST HAVE A PROTECTIVE HELMET (e.g. bike, skating or football), **AND CLOSED-TOE SHOES!**

THE BRAKE MUST BE BOLT-MOUNTED AND THE CONTACT SURFACE MUST BE COVERED WITH RUBBER OR A SIMILAR SUBSTANCE that will rapidly retard motion. The brake should descend at the rear (as in the diagram) rather than the front, so that the car does not pop off the ground.

THE WHEEL DIAMETER MUST BE 5 TO 12 INCHES AND EACH WHEEL MUST BE ATTACHED TO ITS AXLE WITH A BOLT. No axles with pins are allowed. Wheels may have bearings if desired. All wheels must have **SOLID RUBBER TIRES** - no inflated tires are allowed.

Wheel bearings can be lubricated with WD40 or similar lubricant.

The steering axle bolt must be double-nutted.

Steering blocks must be less than 1/4" inch from the main frame). Cars whose gap is 1/4" or more will have difficulty staying on the course

The rear axle should be square with the main beam, and at least 4 deck screws in addition to the two carriage bolts should be added through the rear axle into the main beam to keep it from shifting.

The corners and edges of the seat and seat back should be rounded to prevent injuries.

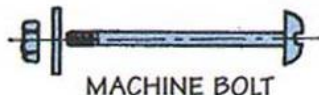
NO EXTRA WEIGHT IS ALLOWED. Securely attached lightweight objects (including wood) that do not raise safety concerns such as impaling are allowed for decorative purposes, however.

A tow rope will be mounted on the front axle to be used in bringing the cubmobile back up the hill.

Any writing and/or pictures on the car must be consistent with B.S.A. values

CUBMOBILE. Use a helmet and safety belt.

SQUARE SECTION PREVENTS TURNING



USE THESE TYPE FASTENERS - NAILS WILL NOT HOLD

7"-10" DIA. WHEELS FROM LAWNMOWER, WAGON, TRICYCLE, BARBECUE, ETC.

POST - 2"x4"

SEAT BACK - 8 3/4" x 20" 3/8" PLYWOOD

SEAT - 15"x20" 3/8" PLYWOOD

FRAME - 2"x4" 52" LONG

STEERING BRIDLE - 1/4" NYLON ROPE

AXLES - 2"x4", 28" LONG

SAFETY BLOCKS TO LIMIT STEERING ANGLE

WHEEL

LAG SCREW

AXLE

FLAT WASHER

FLAT WASHER

FLAT WASHER

DRILL HOLES

MACHINE BOLT

FRAME

2 FLAT WASHERS

FRONT AXLE

WASHER NUT

SECOND NUT TIGHTENED AGAINST FIRST TO LOCK

USE HELMETS AND SAFETY BELTS

PLYWOOD BRACE - ONE EACH SIDE

12"

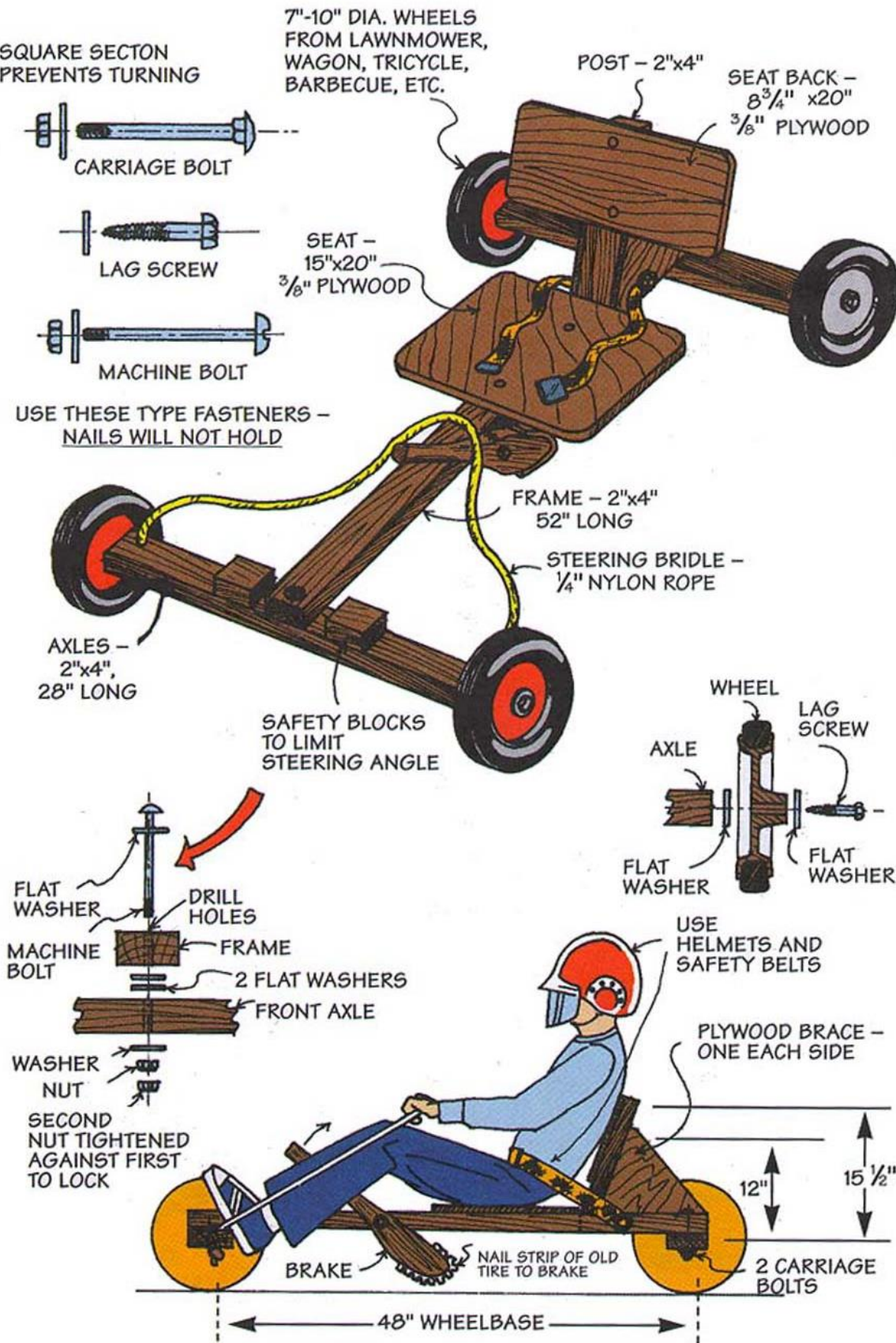
15 1/2"

BRAKE

NAIL STRIP OF OLD TIRE TO BRAKE

2 CARRIAGE BOLTS

48" WHEELBASE



Cubmobile Races

I understand that helmets and seat belts are required, but racing always has risks.

My Cub Scout has my permission to race.

Name of youth: _____

Name of Parent: _____
(please print)

Parent Signature: _____