

2005 "Cub" Mobile Derby Official Rules

October 15th

Cumming First United Methodist Church

Pack leaders please make sure Den's understand and build cars per specs. and rules

1) Participation

- A) Racing is open to all registered Cub Scouts
- B) Wear your uniform
- C) It is recommended that all dens "test drive" their cars before race day to familiarize themselves with the steering and braking mechanism of the Cub Mobile

2) Cub Mobile Construction (Base design per plans on www.cubscoutpack62.com)

Build car as close as possible to the picture and photos

All cars must pass a Pre-Race inspection prior to racing.

A) Wheels

- Wheel diameter must not exceed 10"
- The outside circumference of the wheels may vary from 30 to 36 inches
- Solid rubber tires (air filled tires are not allowed)
- Tires with bearings will be allowed
- Axles must be **lag type** fastener – **no straight axles.**

B) Frame

- 2 x 4 construction grade lumber only. Not 4x4, 4x6, 6x6
- Maximum car length is 5'-0" (Including wheels)
- Car width must be between 30" and 36" (Outside of wheels)
- Wheel base may not exceed 4'-0" (center-to-center of wheels)
- Frame must be bolted together. Remaining items can be attached with screws as long as parts are held secured. **No Nails**
- (a) 3/8" plywood diameter minimum

C) Steering Blocks

- Car must be equipped with steering "safety" blocks to limit turning radius
- Maximum gap between frame and block is 1/8" on both sides

D) Steering

- Car is controlled with a rope connected to the outer ends of the front axle
- Scout may also use his feet on the front axle to assist steering
- Ensure rope is of adequate size for a comfortable grip
- Rope length should be tested by all scouts for length and comfort
- Foot rests are allowed and encourage to give scouts leverage for steering

E) Seat Belt

- Car must be equipped with an adjustable seatbelt securely fastened to the car frame

F) Brake
Car must be equipped with a rubber "drag" pad or equivalent. The car must have two brakes. Brakes must stop car in a timely manner

G) Seat
Securely fastened to the frame (see pictures and photos)
Build as close as possible
A seat with a backrest is required

H) Floor board to discourage the scouts from braking with their feet. It should be positioned between brakes and front axle. Must not interfere with operation of brakes or steering. - Made from 3/8" plywood can be up to 10" long and 24" wide. (see photos @ www.cubscoutpackscoutpack62.com)

I) No additional weighting to the car will be allowed as a means to increase speed

J) Lightweight items such as flags can be attached to car as long as it's secured. Be creative.

3) Safety Equipment

- A) Helmet
Bicycle type
- B) Shoes
No sandals or bare feet will be allowed
- C) Gloves
Leather or Roller blading is recommended
- D) Elbow pads and kneepads are also permitted

4) Racing

- A) Each scout in the den will drive the Cub Mobile
- B) Each run will be timed and logged by timekeepers
- C) In the event of a crash **not of a driver's own doing**, runs for both cars will be voided and rerun. No more than 3 re-starts will be allowed.
- D) Judges will determine a maximum "default time" for all cars that will be assessed in the event a racer does not finish the course.
- E) Judges reserve the right to modify the rules at any time without prior notice

5) Behavior

Please no disorderly or unsportsmanlike conduct
It will be expected that all Scouts will behave appropriately

Questions about the rules? Please contact:

**Mike Williamson 770-887-9662 jwmson1@adelphia.net
Or
Greg McFarling 770-781-3732 gmcfarling@yahoo.com**

**We will also have rules, tips, photos and updates on our pack website
www.cubscoutpack62.com**