

## RAMAPO VALLEY DISTRICT CUBMOBILE DERBY RULES



1. Each den/pack builds at least one Cubmobile
2. Multiple Cubmobiles are allowed per unit up to one per scout.
3. The Cubmobile must comply with the "Cubmobile Specs" Sheet.
4. All Cubmobiles will be inspected prior to each race for safety and design. The Cubmobiles must pass inspection before being allowed to race.
5. All drivers must have and use the following safety equipment: Helmet (Bicycle, hockey, lacrosse or football helmet), Long Sleeve Shirt, Long Pants, and Gloves. Knee and elbow pads are strongly recommended.
6. Seat belts are required.

## Cubmobile Specs and Parts

*See the illustration for description of building materials and hardware.*

1. Wheels must not exceed 10 inches in diameter. Wheels must have a solid rim - wheels with spokes are not allowed. Pneumatic wheels are OK (as long as they are not spoked wheels).
2. Car frame is made from lumber. Please check lumber to insure that it is sound in strength and free of splinters.
3. The overall car length is a maximum of 52 inches; the width is a maximum of 30 inches.
4. Weight is not to exceed 40 pounds without rider.
5. Use roundhead 1/4-inch bolts to hold frame together. Screws are an OK second choice. Nails are not suitable, because they may work loose.
6. All cars must have a seat with braced backrest, so the boy can comfortably steer with his feet.
7. Steering is done with the feet, which are placed on the front axle, and by the hands holding a rope fastened to the front axle.
8. Steering rope should be nylon and at least 1/4" diameter.
9. Car must be equipped with a seatbelt of some type. The belt must protect from injury if crash occurs, and will be inspected for safety.
10. Two 2x4 blocks fastened to the steering cross beam are required. The blocks must be no more than 1/4-inch from the centerboard. This limits the turning radius of the car and makes it easier to control.
11. If threaded axles are used, the nuts must be secured with cotter pins or wire.
12. Cars must be equipped with a handbrake with its rubbing surface faced with a rubber material such as a strip of an old tire. This will stop the car when dragged on the ground.
13. Brakes must be mounted by a 3/8" bolt or larger and a braking surface must be covered with rubber.
14. Axles must be at least 3/8" in diameter.
15. No extra weight is to be added to the car.
16. No objects can be attached to the car that could possibly harm the driver or pedestrians.
17. Any decoration or writing on the cars will be done with B.S.A values.

# CUBMOBILE. Use a helmet and safety belt.

