

## MCE Pine Car Derby Racing Rules

The following rules and specifications **must** be followed:

A. A child must be currently enrolled at MCE to enter the **student division**.

B. The student who receives the 1<sup>st</sup>-place trophy for having the fastest car in a given year is ineligible to enter the student division the following year, but may enter a car in the **open division**.

C. **You must build a new car to participate in this year's race.** You may not race a car that has previously been entered in any other race (held either at MCE or elsewhere).

**Student division cars MUST be one of the types of cars given at the school with the standard Wheels (5 spoke that comes with Pine Car brand cars) and axles or nails.**

Cars will be provided by the school. All cars must be constructed of wood. Any exceptions must be approved by the race director prior to registration.

D. Cars will be registered at the MCE gymnasium at the PC Social, Friday after school or Saturday night before race day. Once a car has been registered, it cannot leave the garage area until all racing is completed.

**NO entries allowed Sunday Morning.**

E. Maximum car size, including wheels, may not exceed **7 inches in length and 2 ¾ inches in width**. The maximum width between the **wheels is 1 ¾ inches**. The minimum ground clearance between the car bottom and the track is **3/8 of an inch**.

F. The total **weight** of each car cannot exceed **5 ounces (142 grams)** when weighed by race officials on the official scale at the time of registration. **Metal or wood weights** may be added to the car to reach maximum racing weight at weigh in.

G. **Standard hard plastic pine car wheels must be used in student division.** Wheels may be deburred and trued.

Inner and outer wheel diameter may not be reduced. You may remove the seam from the wheels. Wheels may not be milled or lathed to reduce weight. Wheels may not be cut, drilled, beveled or rounded, i.e., the contour of the wheels cannot be changed or altered in any way, except for light sanding to remove rough spots. Inner and outer hubs may be coned. **No wheel bearings, bushings, or washers are allowed.**

All cars must have four wheels. **BSA wheels are NOT allowed**

**All wheels will be inspected by race officials at check in. Cars found with nonconforming wheels will be excluded from class races but will be allowed to race in the Open Division.**

H. The **wheelbase** of the car may be extended by **redrilling axle holes**, but the car must meet all physical specifications (see above). Wheels may not extend past the front or rear edge of car body. **Burrs may be removed from the axle and the axle may be polished.**

I. Loose materials of any kind are not permitted on or in the car and the car body may have no moving parts. The car, or any part of the car (including attachments), may not extend beyond the starting peg.

J. The car **cannot ride on or incorporate any type of springs**. No **magnets may be placed on the car**.

In addition, the car must be free-wheeling, with no starting device or other external propulsion (i.e., the car must be propelled by gravity only).

K. **Dry lubricants are the only allowable wheel lubricant. Wet lubricants, such as oils, silicones, or waxes, are prohibited.**

L. Any car found to be in violation of the rules may be moved to Open Division or disqualified by race officials.