

# **2010 SOUTH MOUNTAIN DISTRICT PINEWOOD DERBY RULES**

**ATTACHMENTS:** The car must be freewheeling with no starting devices.

**AXLE CHANNEL:** The channel or groove designed to hold the axle must not be a filled-in. judge must be able to inspect the axle. If axles are loose secure them with transparent glue.

**AXLES:** Only the nails supplied with the kit are permitted. They must be mounted in the wood grooves only. The axles may be glued in place with transparent glue. They may be polished or lubricated but not machined narrower.

**DETAILS:** Details such as Steering Wheels, Driver Decals, Painting, etc. are permitted as long as these details do not exceed the maximum length, width and weight specifications.

**HEIGHT:** The bottom of the car must clear the guide strip (3/8 ") on the track. Height of block can be no larger than 2 ".

**HUBCAPS:** No type of hubcap is permitted. This includes decals.

**INSPECTION:** Each car must pass inspection by the official inspection committee before it may compete. The inspectors will disqualify those cars which cannot be made to meet these specifications. The race committee will hold cars that pass inspection until the race and inspect the winning cars following the race.

**JUDGES:** The decision of the judges on race day is final. Questions and polite discussion will be allowed up to the point of a decision by the judges. Failure to follow this rule may lead to the disqualification of the car involved by the judges. At the discretion of the judges persons may be ejected from the premises of the race for behavior they deem disruptive.

Our Judge will Award 1st, 2nd and 3rd place trophies and subjective awards for the following 10 categories: Fastest Looking; Most Original; Best Expresses the Derby Theme; Most unusual Car; Did their best award; Most Patriotic; Best Overall Car; Best representation of Cub Scouting; Best used of add ons; Best use of physics

**LENGTH:** Overall length shall not exceed 7".

**LUBRICATION:** Dry Lubrication only is permitted.

**NEW CAR:** A new car must be built each year.

**NOSE OF CAR:** The nose must extend beyond the leading edge of the front wheel, however no portion of the car can extend past the starting gate / peg.

**SPRINGING:** The car shall not ride on any type of springs or suspension.

**WEIGHT:** Weight shall not exceed 5.0 ounces (141.75 grams). No loose materials of any kind are permitted in the car. The car may be hollowed out and built up to the maximum weight by the addition of wood or metal -provided that it is securely built into the body. Electronic balances will be used for the weight check.

**WHEEL BASE:** (Length) Length of wheel base (front axle to rear axle) may not be altered.

**WHEEL BASE:** (inside) Do not make the distance between the left and right wheels narrower than 1 3/4 " or the car will not run down the track.

**WHEEL BEARINGS:** Bearings, washers, or other types of bushings are NOT permitted.

**WHEELS:** Only BSA Supply wheels for Pinewood Derby cars may be used. Alterations are not permitted - the wheels may not be cut, drilled, beveled or rounded. The shape must remain the same. The plastic flashing may be removed (outside edge).

**WIDTH:** Overall width shall not exceed 2 3/4 ".