

PACK 221 PINEWOOD DERBY and BLUE & GOLD 2009

Dec 18 2009 release

SCHEDULE

District Workshops	January 10, 2009	9:00 AM till Noon	Carilion Lifeguard Helicopter
	January 24, 2009	9:00 AM till Noon	Helipad located at 4333 McClanahan Street
Pack Workshop (after pack meeting)	January 22, 2009	6:30 PM to ??? PM	CSUM Church at Normal Pack Meeting Location
Pinewood Derby combined with Blue & Gold	February 21, 2009	Timetable to be determined.	CSUM Church at Normal Pack Meeting Location

CAR CONSTRUCTION RULES

1. All cars must be made from Boy Scouts of America (BSA) Official Grand Prix Pinewood Derby kits.
2. All cars must be made during the 2008-2009 Scouting season. Cars that have been entered in previous Pinewood Derby races **cannot be used** in this year's race.
3. Substitution of main wood block, wheels, or axles to non-BSA parts is prohibited.
4. All cars must be within the following dimensions:
7" long, 2 3/4" wide, 3" high, with 3/8" minimum bottom clearance.
5. The total finished weight of the car shall not exceed 142 grams (5 ounces).
6. The distance between the front and rear wheels or axles cannot be altered. You must use the axle slots provided in the standard kit block. If they are not square to the block they may be recut, however the distance between the front and rear axles must be maintained.
7. Wheel bearings, washers, or bushings on the wheels or axles are prohibited.
8. Axles may be filed, polished, and/or lubricated. Dry lubricants are the only authorized lubricants. Wet lubricant is prohibited.
9. Hubcaps or wheel coverings to hold in lubricant are not allowed.
10. Wheels may be lightly sanded to remove burrs and flash (mold seams) but must retain original footprint shape (footprint shape - surface area in contact with the track). The surface area in contact with the track must remain flat. High middles or high edges are prohibited. Judges will reject all cars with wheels that do not meet these guidelines.
11. Axles must not be polished so much that it visibly reduces the diameter of the axle or axle heads.
12. No spring suspensions.
13. Detailing such as driver, steering wheel, roll bar, decals, engines, exhaust pipes, etc. are permitted as long as the weight and size restrictions are not exceeded.
14. No loose materials (that could fall onto track) are permitted in or on a car.
15. All weights must be securely fastened. Sliding or liquid based weights are not allowed.
16. All cars must be able to roll freely to be entered. Cars must be able to complete the run down the track.
17. Axle cutouts and other holes may be covered with wood putty or glazing compound.
18. Non-conformance to any of the above rules will be cause for disqualification of that car. All decisions by the judges regarding cars meeting the above rules are final.

Tips: Electronic sensors are used for time measurement; cars that have a sharply pointed nose may have to travel further to trigger the finish line sensor. Hitting the weight target (142 grams) without going over is important for speed. Smooth running wheels are also very important.

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RACE RULES

1. Only Cub Scouts registered in Pack 221 are eligible to enter the race. Each participant may only register one car.
2. Cars must be weighed and inspected by the judges between 9:00 AM and 11:00 AM on race day, Saturday, February 21, 2009. No cars will be accepted after 11:00 AM. A Scout need not be present to win, but prior arrangements must be made for someone to register the car.
3. Once a car is inspected, approved, and registered by the judges it will be impounded until race time. No car alterations are permitted after this time.
4. If a part comes off a car after the races start, five minutes will be allowed for repair. If repairs are not possible in this time the car will be disqualified..
5. The race will use the cumulative elapsed time method. Each car will run a set number of heats in each lane. Car and lane assignments for each heat will be random and not announced prior to the race. Total elapsed time will be determined for each car using an electronic timer and a computer.
6. If a car jumps the track, the race will be restarted with the original lane assignments. Any car jumping a lane or failing to complete a race on three consecutive attempts will be disqualified.
7. **Speed Competition:** First, Second, and Third place winners will be decided for the Pack, each Den, and Tiger Cubs.
Paint Competition: First, Second, and Third place winners will be decided for the Pack and for Tiger Cubs.
Design Competition: First, Second, and Third place winners will be decided for the Pack and for Tiger Cubs.
Scout's Choice: Each Scout entered in the derby will be allowed to vote for the best car. One Pack winner will be determined.
8. Only the **highest rank** a Scout earns, one award per Scout, will be awarded in the following ranking: 1st Speed Pack, 1st Paint, 1st Design, 2nd Speed Pack, 2nd Paint, 2nd Design, 3rd Speed Pack, 3rd Paint, 3rd Design, Scout's Choice, 1st Speed Den, 2nd Speed Den, 3rd Speed Den. Medals will be awarded to the Den Speed winners and trophies will be awarded to the Pack winners for Speed, Paint, Design, and Scout's Choice.
9. Due to their age a separate race & judging will be held for the Tiger Cubs except for the Scout's Choice award, which is for the whole pack.
10. All participants will receive a Pinewood Derby Patch.
11. **Un-sportsmanlike conduct (as determined by the judges) by a Scout, or the parent of a Scout, will result in immediate disqualification.**
12. All decisions made by the judges are final.

Note: If there is enough interest, as determined by a show of hands at the December Pack Meeting, then an open speed competition will be held similar to last year's format. That was, using the other finish line which simply displays lane placings via flashing lights. Race times will not be recorded. It will be held simply for the fun of friendly competition. No awards will be given to the winners. However, if we have enough extra Pinewood Derby Patches, these participants will receive a patch. All cars are expected to meet the car construction rules. Previous year's cars will be permissible.

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