

Pinewood Derby Rules

The Pinewood Derby Race is designed for all Cub Scouts to have fun racing a car they build from materials in the official Pinewood Derby Kit. All race participants receive awards for participation based on categories established by the Race Committee. The top finishing cars have the opportunity to represent Pack 412 at the District level races.

Race Committee: The Race Committee is made up of Scout parents who are responsible for puffing on the Pinewood Derby Race and abiding by the rules endorsed by the Cub Scouts and CT Yankee Council. Rule interpretation by the Race Committee is final.

Inspection: Alterations to a car which cause an unfair advantage will not be allowed. Cars will be inspected during registration for compliance to the specifications set forth below. **Follow these rules carefully!** Cars that are rejected by the inspector will not race with their den, (but may race for fun in the sibling/parent race at the end.) If you don't understand these rules, ask a race committee member for help.

Weigh-in: Pack 412's own scale is the only official scale! You will have the opportunity to weigh your car on the official scale- during the two den meetings prior to the derby. **On race day** racers will be allowed to weigh-in twice. The car will be impounded until race time after the second weighing.

Impound: Cars will be impounded when registered and weighed-in. After being impounded, repairs *will* be limited to replacement of axles/wheels that are broken or lost during the race. No lubrication will be allowed at any time after impound.

Specifications:

BODY: The body in the Official BSA Pinewood Derby Kit **must** be used. Bodies of other materials will be grounds for disqualification. The body may be shaped, hollowed out, or built up from the original block, as long as it meets all other specifications. Any addition to the original body, i.e. steering wheels, drivers, decafs, paint, weights, etc, must be firmly attached. Cars with wet paint will not be allowed.

WIDTH: The car width at the wheels may not be modified; it must be the same as the original kit. Width must not exceed 2 3/4".

LENGTH: Overall length may not exceed 7".

HEIGHT: The maximum car height is 3".

WEIGHT: The weight of the race-ready car must not exceed 5 ounces (141 .7 grams)

as measured on the official Pack 412 scale.

WHEELBASE: Wheel base may not be modified; it must be the same as the official kit.

WHEELS: Wheels and axles must be as furnished in the official kit. You may polish the axles. Wheels may be sanded **only** to remove the flashing (the little bump that remains from the manufacturing process.) NO washers, bushings, bearing, or springs are allowed. No reductions in width or diameter, or changes in shape are allowed. The 4 wheels, 2 on each side, must be placed such that the car will straddle the lane guide and maintain all 4 wheels in contact with the surface of the track. NO SOLID AXLES! You **must** use the axles (nails) that were provided in your kit. Do not use putty or glue to fill in the groove where the axles go. They must be visible to the inspector. Minimum clearance between the bottom of the car and the bottom of the wheels shall be 3/8" so the car will clear the track's center guide strip. It is recommended that weights on the bottom of the car be inset so they are flush with the bottom of the wood block.

LUBRICANTS: Only dry powdered lubricants, such as graphite, may be used. You may not use any other lubricant, especially oils and silicone sprays. Regular oils and silicon sprays may soften the plastic wheels and foul the track.

OTHER: Cars must free-wheel with no stored energy or movable weights. There is no designated front or back to the supplied body, either end may be the front.

Heat winners will be determined by the official timing computer.

First, boys will race with their den for 1st, 2nd, and 3rd place. Then the Pack champions will be determined. Lastly, there will be a just-for-fun-race- for siblings, parents, and boys (whose cars did not pass inspection.)

There may be judging for additional awards in the categories such as but not limited to Most Unique, Most Original, Best Looking, Best Cub Scout Theme, etc...Be Creative? And remember, DO YOUR BEST!

Scouting encourages good sportsmanship