Pack 221 2009 Pinewood Derby



#1 Rule - have fun, use your imagination, be proud of your derby entry. Do Your Best!





"* PLAN **

All cars must be within the following dimensions:

7" Long 2 ³/₄" Wide 3" High 3/8" Bottom Clearance The total finished

weight of the car shall not exceed 142 grams (5 ounces). The distance between the front and rear wheels or axles cannot

wheels or axles cannot be altered. You must use the cutouts provided in the standard kit block

Can pick one category to be the best in, any of them can be a winner

Design



use imagination doesnt have to be a race car old cars, pickup trucks invent a design

cartoons, animals military, space, sea, air

add trim, fenders, fins driver, pipes, engines, spoilers

Paint



sand sand sand the finish is only as good as the base

watch mixing paint types

try color shading, pin stripes decals too

paint can be heavy don't glue in weights until paint is done

Speed



axles straight deburr & polish lube with graphite don't forget the tires

surf the web for speed tips and design ideas

convert your plan to cut lines draw them on the wood block

the block size drawing can be used to sketch initial ideas

it is double sided for twice

if you need more, feel free to make additional copies or contact Dave Wanner (see rules sheet for contact info)

when finished, the shapes can be cut out and traced around to transfer the design to the block for cut lines

it may be helpful to draw centerlines & block out wheel areas if you chose to instead draw directly on the block

Make sure not to cut off the wheel axles

plan & leave spaces to add weights later

Tools & safety

Power tools need adult help always use goggles, & caution saw & hammer safety

Derby workshop is available for help

Paint - always in well ventilated area

leave plenty of time to dry

sand, buff, steel wool between coats or primer

WEIGH IN

leave time for lubing wheels weight adjustment

PROTECT YOUR CAR All registered Cub Scouts can go to District Race

> Helpful Hints produced by The Master of Mistakes!

mount wheels straight as possible

test roll on a flat floor

preliminary weight check can use official weights, or washers, pennies, screws, lead substitutes

only restrictions: maximum weight, and has to be solidly mounted