

**2010**  
***New Horizons District  
Pinewood Derby***

***March 27, 2010***  
***LOCATION: CBC High School***





2010  
**New Horizons District**  
**Pinewood Derby**  
**"Rules Of The Road"**



**Speed Competition**

Eligibility: All registered Cub Scouts in the New Horizons District, from Tiger Cub to 2nd Year Webelos; including those 2nd year Webelos that have qualified at the Pack level but have crossed over to a Troop prior to the District Race day.

All cars must be newly built after September 1, 2009 using the materials in the Official Pinewood Derby Racing Car Kit (part# 17006) or the Official Wheel/Axle Kit (part# 17553-17557) including the Official colored wheels. Hobby Shop parts such as Pinecar precut car bodies, Pinecar axles, Pinecar wheels, axle tubes, bearings and springs are strictly prohibited. Cars must be built by the Scout and his adult partner. With the exception of decorative and construction items (weights, glue, lubricants, etc.) only materials from the official kit may be used.

The maximum length of the car shall not exceed 7 inches.

The maximum width (including wheels and axles) shall not exceed 2-3/4 inches.

The maximum height shall not exceed 3 inches.

The maximum weight of the car shall not exceed 141.7 grams (this is the same as 5 ounces, however, weighing of the cars will be done using very precise scales and will be measured in tenth's of a gram).

The minimum clearance between the bottom of the car and the bottom of the wheels shall be at least 3/8 inch so that the car can clear the center guide strip.

The minimum width between the inside surfaces of the wheels shall be 1-3/4 inches so that the car will clear the center guide strip.

Items such as steering wheels, model drivers, spoilers, decals, painting and other details are permissible as long as these details do not exceed the maximum length, width, height and weight specifications. Loose materials of any kind are not permitted on the car.

The car or any part of the car may not extend beyond the starting pin.

**IMPORTANT: DO NOT LUBRICATE YOUR CAR INSIDE THE RACING FACILITY.  
DO THIS OUTSIDE THE BUILDING PRIOR TO CHECKING IN AT REGISTRATION.  
THE GRAPHITE WILL STAIN THE FLOORS AND CARPETS.**

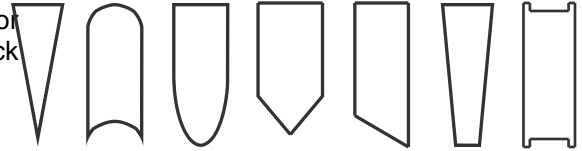
## **The Pinewood Car - Wheels**

### **Not Allowed**

Old Style BSA wheels are no longer allowed. These wheels are not in the current Official BSA kits and are no longer approved by BSA.

The wheel diameter cannot be reduced past the ridge (rippled) edge and the ridge (rippled) edge must remain intact on the entire wheel.

Wheel treads may not be rounded, tapered, grooved, shaped or positioned at any angle. Wheel treads must run flat against the track surface.



Beveling, tapering, grooving or reducing the tread width of the wheels is strictly prohibited. Wheel bearings, washers or bushings are also prohibited.

Removal of any material from the wheel sidewalls or face is not allowed. The front outside wheel sidewalls & face must remain intact. All Wheels must have the "BSA" "Pinewood Derby" on the sidewall completely intact. The picture of the wheel to the right is what the judges will expect to see on the cars. Anything else will result in disqualification.

Additional items such as wheels bearings, washers, bushings, Wheel and Hub covers are also prohibited.



## **The Pinewood Car - Axles**

### **Not Allowed**

Axles that are not supplied by BSA in the original car kit or BSA wheel/axle kit.

Axles may not be angled in the car body slots/holes that would cause the wheel not to run flat to the surface of the track.

Axles must not be modified to the point that breakage could occur during the race.

The Axle head diameter may not be reduced.

## **The Pinewood Car - Body**

### **Not Allowed**

No part of the car, including wheels, may extend past the front of the car body.

The body of the car, the wheels or any attachment must not extend beyond the starting gate. The front of the car must not be smaller than 3/8 inch in width or a cutout notch. Attachments must not have the effect of a starting or accelerating device

At least three (3) wheels must remain in contact with the track at all times.

The car shall not ride on any type of springs and the car must be free wheeling with no starting device or other propulsion.

## **The Pinewood Car - Lubricants**

### **Not Allowed**

Wet lubricants such as oils, silicones or waxes are prohibited. Use only a Graphite or Graphite/Moly Lubricant.

## **Examples of modifications that are allowed**

Extending the wheelbase of the car by drilling axles holes.

Truing the wheels round by sanding or lathing. Be careful not to reduce the wheel diameter or round the tread face. The tread must remain flat.

Removal of material from the inside of the wheel that does not effect the outside diameter or reduce the original width of the tread.

Removing the pinch marks and mold ridges on the axles by sanding and polishing the axles.

## **Disqualifying Rules**

The New Horizons District Pinewood Derby Officials will disqualify any car that does not comply with **ALL** of these rules. If a car is disqualified, the Scout will be allowed to race the car during the "Elimination" phase of the races, but an official time will not be kept and the Scout will not be able to advance to the "Championship" phase of the races.

During any race, if a car leaves its lane and interferes with another car or suffers any mechanical problems, the racer will be given a chance to repair the car, no times will be recorded and the race will be re-run. If the same car causes interference or breaks down again, the race will be re-run but without the offending car.



Any dispute of these rules with regard to a specific car's eligibility to race in the District Race will be decided upon by no less than three members of the District Pinewood Derby Committee. The Committee's decision will be final.



# Helpful Websites on Building Derby Cars

## Non-Commercial Sites

Scouting the Net

<http://www.scoutingthenet.com/derby>

Scout-o-Rama

<http://www.scoutorama.com/derby>

USScouts.org Project

<http://usscouts.org/usscouts/pinewood.asp>

Pinewood Derby Mania

<http://www.geocities.com/~pack215/pinewood.html>

Ol' Buffalo Pinewood Derby Car Page

<http://www.three-peaks.net/pinecar.htm>

## Commercial Sites

Derby Champ

<http://www.derbychamp.com>

Pinewood Extreme

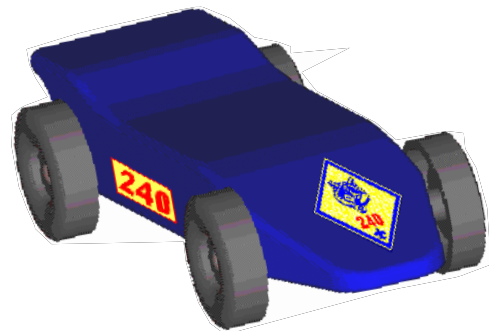
<http://www.pinewoodextreme.com>

Maximum Velocity

<http://maximumvelocity.com>

WinDerby

<http://www.winderby.com>



(These websites are for informational purposes only. No endorsement of products or building tips is implied)





2010  
**New Horizons District**  
**Pinewood Derby**  
**Registration Form**



The 2010 New Horizons District Pinewood Derby will be held on March 27, 2010  
at Christian Brothers College High School

Please fill out this form completely and return it as soon as possible to me at Roundtable, to me by mail, or to the Council Office on West Pine with your check. This registration form and the appropriate fee must be turned in no later than January 30, 2010.

**DO NOT turn this form and payment into the Council Office on Page.**

If you would like to mail this form and your check, please send them to:

*Bill Wittke*  
*Attn: Pinewood Derby*  
*309 Valparaiso Ct*  
*Valley Park, MO 63088*

Each pack should register 1 racer for each 8 Cub Scouts in the Pack or 5 scouts, whichever is greater. (This includes Tiger Cubs). The registration fee for the Speed competition is \$12.00 per racer.

**You must register as a pack. Individuals are not permitted to register.**

Each pack is also **required** to provide one volunteer for the event. This event requires between 60 and 70 adult volunteers to serve as staff members. We need all the help that we can get!!!

Pack \_\_\_\_\_ would like to register \_\_\_\_\_ racers (1 for each 8 Cub Scouts; minimum of 5 racers if pack is less than 40 Cub Scouts).

Enclosed is \$ \_\_\_\_\_ (\$12.00 x the number of Cub racers). Please make your checks payable to the **"Greater St. Louis Area Council"**.

Our Pack Contact Person is: \_\_\_\_\_

Phone: (\_\_\_\_)\_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Our Pack Volunteer is: \_\_\_\_\_

Phone: (\_\_\_\_)\_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Please E-Mail Bill Wittke at [wk Wittke@swbell.net](mailto:wk Wittke@swbell.net) if you have any questions.

**The Pack Contact will be notified of their pre-assigned check-in times in late February after all packs have registered. Check-in times will also be posted on our web site, [www.NewHorizonsPWD.Org](http://www.NewHorizonsPWD.Org).**

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**ACCOUNT CODE: 6801-556-20**



**2010**  
**New Horizons District**  
**Pinewood Derby**  
**“Rules Of The Road”**



**Design Competition**

Eligibility: All registered Cub Scouts in the New Horizons District, from Tiger Cub to 2nd Year Webelos, including those 2nd year Webelos that qualified at the Pack level but have crossed over to a Troop prior to the District Race. An entry fee of \$3.00 per scout will be charged this year.

**The Design Competition rules are:**

Cars entering the Design Competition must be newly built (after September 1st, 2009). The car must meet all of the requirements stated in the Rules of the Road for the Speed Competition with the exceptions of the length, height and weight requirements.

Registration for the Design Competition will take place any time between 9:00 a.m. and 1:00 p.m. TBD. Entrants must register their cars at the Design Tables **and** declare which design category they would like to be considered for. They will then receive a registration number and sticker for their car. Judging of the cars will begin at approximately 1:15 p.m. with awards being presented at approximately 3:00 p.m. If a participant is entered in the speed portion of the derby, and is eliminated prior to 1:00 p.m., the Scout may retrieve his car and enter it into the design competition.

**The Design Competition categories are:**

**Judge's Special:** Best overall entry from all design categories. This entry is chosen *before* all other design categories are chosen. Either a car or a non-car design.

**Best Automotive Design Car:** Best realistic representation of an actual car with unusual attention to detail and shape.

**Original Design:** Best reflects the most unusual approach in other than a car design. For example, a pool table, dragon, pirate ship, submarine, fish, campsite, etcetera.

**Best Concept Car:** Best reflects a novel and different approach in a car design. For example, a Batmobile, jet cars, futuristic cars, manufacturer's prototype cars, etcetera.

**Cub Special:** Best use of the Cub Scout colors, BLUE & GOLD. Either a car or a non-car design.

**Funniest Design:** Most humorous approach. Either a car or a non-car design.

**Cub Built:** Best 99% Cub built car. Either a car or a non-car design.



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**Registration Form**



The 2010 New Horizons District Pinewood Derby will be held on March 27, 2010  
at Christian Brothers College High School

Please fill out this form completely and bring it and your registration fee to the race. Please  
complete one form per entry.

**DO NOT turn this form and payment into the Council Office on Page or West Pine.**

The registration fee for the Design competition is \$3.00 per scout.

Scout Name: \_\_\_\_\_

Pack Number: \_\_\_\_\_

Design Area (please circle one):

Best Automotive Design

Original Design

Best Concept Car

Cub Special

Funniest Design

Cub Built

Please make your checks payable to the **"Greater St. Louis Area Council"**.

Please E-Mail Bill Wittke at [wkwittke@swbell.net](mailto:wkwittke@swbell.net) if you have any questions.

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