

2010 Hemlock District Pinewood Derby Championship

Invitation

Hello and welcome to the Sixth Annual Hemlock District Pinewood Derby! My name is Don Gantt and I am this year's District Pinewood Derby Chairman (Pack 320 – Fuquay-Varina). On behalf of all the volunteers and the District Committee, I welcome you to this event!

The Hemlock District Pinewood Derby represents the best cars from each of the Cub Scout Packs that make up our District. **The derby will take place on Saturday, March 13, 2010** at Fuquay-Varina United Methodist Church located at 100 S. Judd Parkway in Fuquay-Varina. Directions may be found in this handout on the "Guidelines" page. **This event is for the Scouts – not the parents. Packs are responsible to make sure that each Scout was involved in the design and construction of his car.**

Former Scouts remember this race as either the best or worst part of their Cub experience so make sure your son focuses mostly on the fact he made it here and not on whether or not he wins.

This event will focus on four levels: Tigers, Wolf, Bear and Webelos. Each Pack should send its top three speed finishers in each of these levels. In addition, the "Best Design" and "Most Unique" cars for each level will be judged, so please also send one car **in each of these categories** from each Tiger, Wolf, Bear and Webelos level. In total your Pack may send twelve (12) speed representatives and eight (8) appearance representatives. Descriptions of "Best Design" and "Most Unique" categories are attached. This should help you decide in which category these cars should be entered. **Entrants cannot compete in both speed and appearance.**

We hope to keep to the following schedule:

Level	Registration	Design Judging	Racing	Race / Design Awards
Tigers	8:00 – 8:55	9:00 – 9:15	9:00 – 10:00	10:00 - 10:15
Wolf	9:30 – 10:25	10:30 – 10:45	10:30 – 11:30	11:30 – 11:45
Bear	11:00 – 11:55	12:00 – 12:15	12:00 – 1:00	1:00 – 1:15
Webelos	12:30 – 1:25	1:30 – 1:45	1:30 – 2:30	2:30 - 2:45

Cars not registered during the assigned times will not be allowed to compete. If you are in line before the close of your respective registration period, you will be registered. Please note: Since we have no way of knowing how many Cub Scouts will pre-register, or how many actually will show up for the District Derby, starting and ending times are estimates; however, the committee will do its very best to keep the race on schedule. Your help with promptness is appreciated.

Trophies will be awarded to the 1st, 2nd and 3rd place speed finishers. One trophy will be awarded for Best Design and Most Unique for each level. All Scouts will be awarded a participation patch. The cost per Pack to participate will be \$40.00, regardless of the number of participants. This sometimes doesn't even cover the cost of the trophies and patches. For a Pack that sends 20 participants that cost is a mere \$2.00 per Scout. Only those Packs pre-registered by 3/10/2010 will be allowed to race.

The Pack registration form is included in this packet. Please print legibly. Please provide copies of this packet to your Pack winners. Send your registration & fee to

It is the responsibility of each Pack to ensure each participant (and Parents) read these rules. Additionally, each Pack is required to send two (2) volunteers for the entire event! Send an email to hemlockderby@earthlink.net with your Pack's volunteer names. Thank you for complying with these instructions and good luck to all Scouts!!

RULES

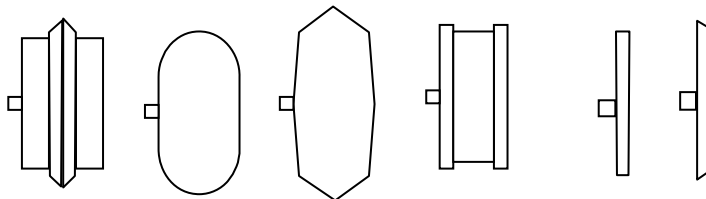
Note: Each Scout is responsible for understanding and following all rules. Nothing would be more heartbreaking than to work hard on a car and then have it disqualified for a rule violation. **Class A Uniforms are required for this event!** Only ten seconds are allowed for the Cub Scout to place his car onto the track for each race.

Note more Rules as follows:

1. **Only pre-registered Cub Scouts are allowed to enter and each must be present to compete – no exceptions!** His car may compete in only one of the following categories: Speed, Best Design or Most Unique.
2. **Car weight shall not exceed 5.0 ounces. Max car height 4 ¾". Max overall width 2 ¾". Max length 7".**
3. Sufficient space must be provided under the car to clear the guide rail - 3/8" clearance minimum is required.
4. Only solid, one-piece pinewood bodies, plastic wheels, and metal axles from the **Official BSA Pinewood Derby kit or Supplement kit** may be used. Weights and detail items (such as decals, driver figures, steering wheels, exhaust pipes, etc.) from other sources are acceptable as long as they do not cause the car to violate any other rules.
5. Cars must have been built on or after April 1, 2009. Cars from previous years (whether used or not) as well as axles, wheels and one-piece pinewood bodies used in previous years, are not permitted.
6. Wheel bearings, washers, or bushings on wheels or axles are not allowed. (Washers may be used as weights elsewhere.)
7. Only approved dry powder lubricants may be used, as available at Scout headquarters – these include graphite (black/gray) and Teflon (white). Lubes may only be applied outside the building, or at the designated 'pit' area, before final inspection. Excess powder must be shaken off before bringing the car into the building. Lubricant may not be applied to cars after registration.
8. One-piece axles are prohibited. Nail-type axles provided with the BSA Pinewood Derby car kit (*Note Rule 4*) must be used and must be in the same plane. Both ends of each of the four axles must be visible for inspection. Do not conceal the pointed end with wood putty, paint or other material.

Roll Test – to pass inspection all four wheels must rotate when the car is rolled back and forth. This rule will be enforced again this year. *Note Rules 2-4, 6, 7, 12-16, & 21.*

9. The car shall not ride on any type of spring or contain any live animals.
10. The car must be freewheeling with no starting devices.
11. No loose materials of any kind are allowed on or inside the car.
12. No part of the car may project past the rear plane of the track starting pins. The starting pins reach 2 inches above the track
13. Wheels may not be tapered or rounded. Sanding excess plastic mold material at seam lines is permitted.



Examples of Illegal Wheels

14. The inside lateral (left to right) distance between wheels must be at least 1 ¾ inches to straddle the rail.
15. Wheels and axles must be mounted in grooves or holes provided for that purpose in the BSA kit. The length of the wheel base or position of the wheels on the car may not be modified. Either end of the wood block may be designated to be the front of the car. Depth of provided grooves may not be changed.
16. Weights must be an integral part of the car chassis. Weights may not be held in place using tape.
17. Scouts are responsible for being on time. No heat will be delayed more than 15 seconds waiting for any Scout.
18. Scouts are not permitted to touch a competitor's car under any circumstances. Scouts are not permitted to touch their own car after it has been registered except when instructed to place the car on the track, return it to the display table, or make a repair. Scouts may be disqualified for touching any car at inappropriate times.
19. In the event of a breakdown, Scouts have 2 minutes (under the supervision of a race official) to perform repairs with the assistance of the Pit Crew. Only one repair is permitted during the District Derby. After repairs are complete, the car must pass inspection once more. All original inspection rules apply.
20. If a car jumps its lane, the race will not be counted; if this happens twice in the same heat, the car will be disqualified. This applies, as well, to cars that fail to cross the finish line twice in the same heat. *Note Rule 18.*
21. Decisions of the Inspection Crew and Race Officials are final. We rule in the spirit of fair Scouting.

Guidelines for Entrants Advancing to the 2010 Hemlock District Pinewood Derby

Congratulations on winning in your Pack's Pinewood Derby! We wish you the best of luck in the Hemlock District Pinewood Derby. **The race will be held on Saturday, March 13, 2010**, at Fuquay-Varina United Methodist Church, 100 S. Judd Parkway, Fuquay-Varina, (directions found below). Please check the district website for updates, changes, weather cancellation/postponement at: www.hemlockdistrict.org

Here are some important things to remember:

- Read all information on the previous two pages. Any questions should be addressed before submitting your intent to compete.
- Confirm with your Cubmaster your intent to race. Make sure your Pack Registration Form is submitted by March 11, 2010, or your Pack will not be allowed to compete.
- Remove any stickers from the underside of your car. A new number will be assigned to your car by District Race Officials.
- Once you have passed car inspection and registration, you must clear the area to make room for other Cub Scouts to register. Please keep your voice down so that you will hear the loudspeaker call for your rank and car number.
- When your rank is called, immediately proceed to the track area and wait for further instructions from a District Race Official.

For Speed Entrants:

1. Go to the Registration Table to weigh your car. Once you pass this step you may submit your car for further rules inspections. If all inspections have been passed your car will be assigned a number and a sticker will be placed on the bottom of your car. A sticker bearing your car number will be placed on your uniform so we may match the right kid with the right car! Do not remove or misplace your assigned sticker!!
2. After registration place your car on the Ready Table and leave the race area until race time.

For Appearance Entrants:

1. Go to the Appearance Registration Table. **Your car will be subject to the same tests and inspections, as if you were racing. (See "1." above).** Both you and your car will be given a sticker to wear. **DO NOT LOSE YOUR STICKER!** When judging is complete and awards are over, you must report to the Appearance Judging Table and a race official will match the car sticker to the sticker you are wearing! We cannot give a car to a Scout without his sticker matching the one on his car!!!

Appearance Judging Criteria:

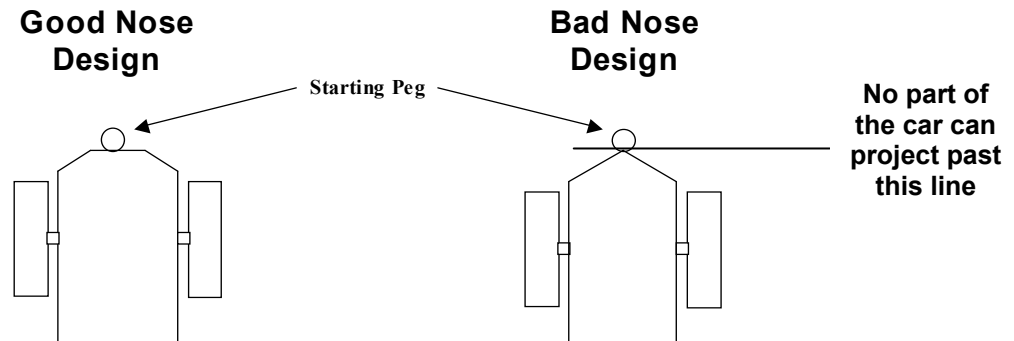
BEST DESIGN: The essence of Best Design is that it should look like a race car. The overall design of the car should be special in that thought and consideration were given for racing, speed, aerodynamics and detail work. It should be extremely well crafted, the more detail the better. More complex design and structure are a bonus so long as the features are related to fast cars (real ones) and fast performance (of pinewood derby ones).

MOST UNIQUE: The overall design should be unique in that the shape and design of the car does not appear like any other entrant. The less it looks like a race car, the better. Most Unique should also be extremely well crafted, the more detail the better. It must be able to perform in a race and points should be awarded for designs that would aid, rather than hinder, race performance. Designs should be tasteful and visually pleasing (pretty). Complex design and structure are a bonus. Wit, charm and cleverness also are a bonus.

SPECIAL NOTE: *In the rare event there is a tie in the Speed Races, the best and worst times from the tied cars will be dropped. A new average will be calculated and a winner should prevail. If a winner does not prevail, the Race Officials will remove yet another best/worst race from each car. Again, if a winner fails to emerge after the third try then dual trophies will be awarded. All decisions are final. If you do not agree with this ruling, please do not race your car.*

Again, if you desire to see the Derby managed differently, then please volunteer your time and talent to make this an even better derby for future Cub Scouts! Your help is appreciated and needed for the 2011 District Championship! Please contact us through the District homepage.

Design Note: A car that has a sharp point at the front may be misaligned in the starting gate and may not accurately break the light beams at either the start or finish line. *This can result in slower times – please carefully design your car accordingly.*



Location and Directions to this Event

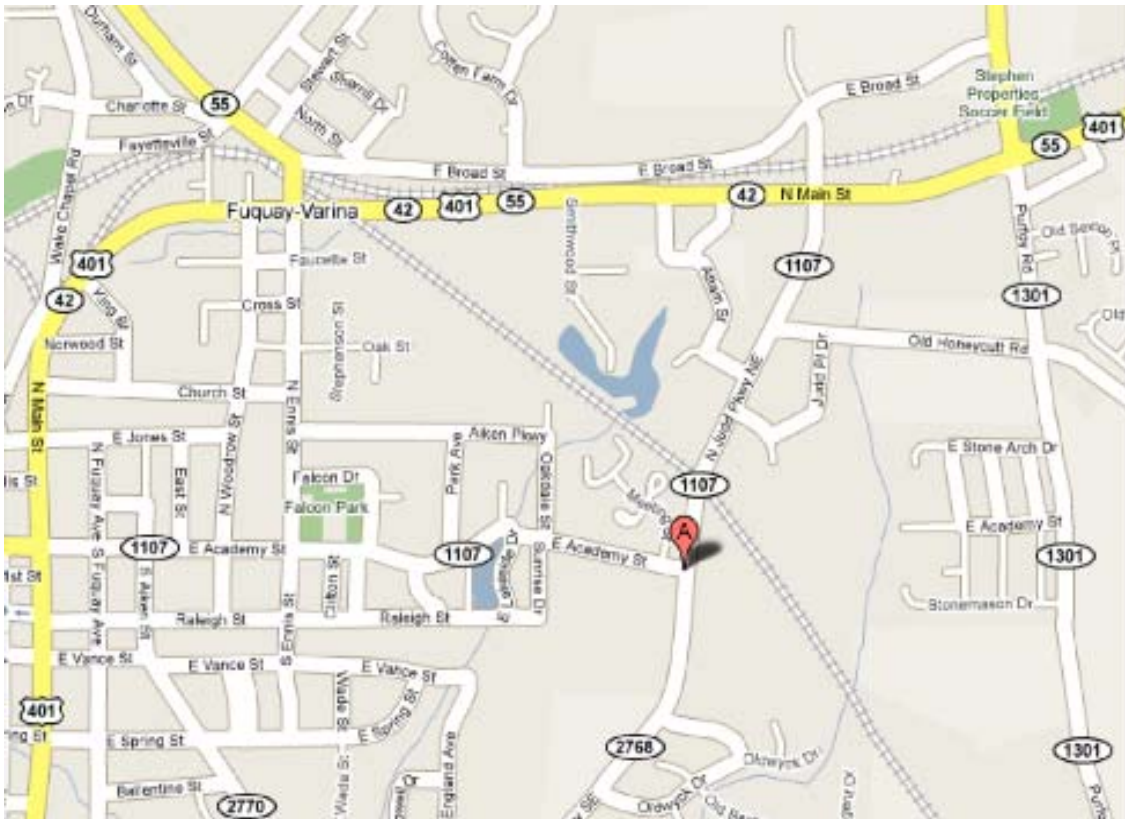
Fuquay – Varina United Methodist Church
100 S. Judd Parkway, Fuquay-Varina, N.C.

From Garner:

Take US-401 South toward Fuquay-Varina. Once in Fuquay, take a left onto Judd Parkway (5th stop light once you are in Fuquay) and travel approx. ½ mile. The church is on the right.

From Holly Springs:

Take NC-55 South to Fuquay-Varina and US 401. Turn left onto US 401. At the next stop light, turn right onto Judd Parkway and travel approx. ½ mile. The church is on the right.



2010 Hemlock District Pinewood Derby
March 13, 2010
Pack Registration Form

This form is due no later than 6:00 p.m. on March 11, 2010 to:

Don Gantt
 2801 White Rail Drive, Fuquay-Varina, NC 27526
 Phone: 557-0569 Email: hemlockderby@earthlink.net

Cubmaster Name (or contact) _____ Pack _____
 Address _____
 City _____ Zip _____
 Phone _____ Cell Phone or Pager _____
 Fax _____ E-mail _____

I have read and handed a copy of the Invitation, Rules and Guidelines to each Cub Scout below.

(Signature of Cubmaster or responsible party) _____

Rank/Level	Class/Entrant Type	Name
Tiger	<i>Speed</i>	
Tiger	<i>Speed</i>	
Tiger	<i>Speed</i>	
Wolf	<i>Speed</i>	
Wolf	<i>Speed</i>	
Wolf	<i>Speed</i>	
Bear	<i>Speed</i>	
Bear	<i>Speed</i>	
Bear	<i>Speed</i>	
Webelos	<i>Speed</i>	
Webelos	<i>Speed</i>	
Webelos	<i>Speed</i>	
Tiger	Best Design	
Tiger	Most Unique	
Wolf	Best Design	
Wolf	Most Unique	
Bear	Best Design	
Bear	Most Unique	
Webelos	Best Design	
Webelos	Most Unique	

Volunteer 1. _____

Volunteer 2. _____