

PINEWOOD DERBY

RULES AND REGULATIONS



Memphis Section Royal Rangers

Race Day February 18, 2012 – Raleigh Assembly Gymnasium – 8am

2012 Edition

Purpose of Pinewood Derby

The Royal Rangers Pinewood Derby Program was started with the thought of having a project that a father and son could work on together, and to give boys with no father a sponsor to help them and promote the father image. With these thoughts in mind, let us encourage our boys to enter the derby, encourage fathers and/or grandfathers to work with their sons building their cars, and minister to both father and son. Also we have broadened the purpose by inviting Girls Ministries K-12 to race with the hope that the Pinewood Derby will become a family experience. May the best cars win!

Who Can Participate

The Memphis Sectional Pinewood Derby is open to all boys in active outposts in the section. Girls involved in the Girls Ministries K-12 are also invited to participate but will only race against other girls. All male and female leaders are open to participate, this includes parents and pastors. All adults race together in one class.

Any unchartered outposts or outposts that are not in the section that would like to participate will be considered on an individual basis by a committee consisting of the Sectional Commander, the Sectional Pinewood Derby Coordinator and the Asst. Pinewood Derby Coordinator.

Specifications of the Pinewood Derby Car

All cars must be constructed from the base kit available from Gospel Publishing House. No BSA cars will be allowed to compete.

Cars entered into competition from previous years are allowed to race if modified by at least 10%, i.e. sanded and re-painted. Only one car per class may be entered (i.e. a Discovery Ranger with a racing classification car can only have one car compete in the racing competition). The exception to this rule is if a boy wants to enter one car for “Racing – only” and a separate car for “Best Looking - only”. However, the participant will be required to pay two entry fees, one for each car entered into competition.

To be eligible to compete, all cars must meet the following specifications with no exceptions:

Maximum Length (including all attachments)	7 ½”
Maximum Width	2 ¾”
Maximum Height	3”
Maximum Weight	5 ½ oz. (156 grams)
Minimum Under-Car Clearance	3/8”
Minimum Distance Between Wheels	1 ¾”

No part of the car will extend past the starting line when positioned on the track. Any car with a pointed nose which does not rest against the starting gate properly may, at the Track Officer’s discretion, be disqualified or allowed to be reoriented and the car run backwards if necessary to comply with this rule.

Only dry lubricants, such as graphite or powdered Teflon "white lube", will be allowed for lubricating the axles. Lubricants may not be allowed to unnecessarily foul the track.

Once a car has been registered, no further work including additional lubrication, may be done to it except as allowed by the rule below concerning mechanical breakdown. Furthermore, **once a car is accepted at registration, the car is deemed to have met the requirements outlined in this guide.** Accordingly, no person other than Pinewood Derby officers may examine or inspect a car.

You may add weight to the car in order to bring the car to the maximum allowed weight. Weights must be an integral part of the car. They may be placed inside the block, mounted as an ornament, or be otherwise permanently attached. Weight may not be taped or set on a car. If weights or any other part of a car comes off during a heat, the car will be re-run in another heat. If the same car or part leaves the track again, the car is disqualified from racing. No heat/race will be delayed while repairs are made.

The scales used by the section at registration are the official scales. The car's weight may be altered at registration but not so thereafter.

For additional guidelines, refer to the booklet "Pinewood Derby Racing: Tips from the Top for Downhill Racers" available from Gospel Publishing House.

Registration

- Registration will be the night before the pinewood derby race during the setup of the race track(s). Registration will be from 6:00 pm – 8:00 pm on that Friday night.

All cars must be registered on Friday, February 17 – Raleigh Assembly Gym – 6-8pm - \$5/car

- Pre-registration is very helpful and is strongly encouraged. Enclosed in this packet is a pre-registration form so that Outpost Coordinators can pre-register their outpost. A separate registration form should be used for each age group (class). Usually, the Outpost Coordinator pre-registers his outpost and then brings the cars, money and pre-registration form to registration.
- Total all of your registration fees and bring a check or cash and your registration forms to the registration. The registration fees are \$5.00 per car.
- Cars which are registered will be raced. However, in order to be eligible for a ribbon or trophy, the racer must be present at the awards ceremony. No refunds will be given for “No Shows”, but your donation is kindly appreciated.

Description of Race Class & Awards

- Ranger Kids
There will be 1st, 2nd & 3rd place trophies awarded for racing.
- Discovery Rangers
There will be 1st, 2nd & 3rd place trophies awarded for racing.
- Adventure/Expedition Rangers
There will be 1st, 2nd & 3rd place trophies awarded for racing.
- Girls involved with Girls Ministries
There will be 1st, 2nd & 3rd place trophies awarded for racing.
- Royal Ranger Commanders & Girls Ministries leaders
There will be 1st, 2nd & 3rd place trophies awarded for racing.
- Grand Champion Race
The racer running the fastest tract time from the Ranger Kids, Discovery Rangers, Adventure/Expedition Rangers & Girls will be the Grand Champion. Adults are not included in this race. One Grand Champion trophy will be awarded to the winner.
- Fastest Outpost
The outpost with the fastest 3 car average track time will be awarded the annual Memphis Cup trophy. The winning outpost should have their outpost number inscribed on the trophy with the year. The winning outpost will return the trophy the following year at the derby where it will be competed for again.
- Pinewood Derby Design
There will be 1st, 2nd & 3rd place trophies awarded for design. All cars entered from Ranger Kids, Discovery Rangers, Adventure/Expedition Rangers, Girls, & Commanders/leaders will be judged.

Competition Rules

Races

Races are conducted using the “super timer” and super timer software. Here is how it works:

- All cars will run in at least 4 heats and will run in each of the 4 available lanes. That means there will be four rounds of racing.
- After each heat, the results and track times are announced verbally and shown on the projector screen. This information is also recorded by the computer software. Specifically, the software tracks each car, its track time and lane assignments.
- After each racer establishes an initial track time in the first round, the software creates future heats so that cars of similar track times race one another. In other words, for rounds 2, 3 & 4, faster cars race each other. This configuration insures the heats are more competitive and gives each child a better chance of winning a heat even though they may not win a trophy.
- Because of this configuration, each heat will contain cars from various classes, i.e. a Discovery car vs an Adult class car. *Even so, these cars from different classes will not be competing against one another for the purpose of winning a trophy.*
- Trophies are awarded in each class based on the fastest average track time To see how you are stacking up against your competition during the race; you will need to consult the posting boards which display the results in print by class. These results are updated and posted after each round. The classes are Ranger Kids, Discovery Ranger, Adventure Ranger, Girls Ministry and Adults.

Design

Design competition will be judged according to the following criteria:

- Originality – How much creative thought and effort went into the design?
- Workmanship – The skill shown in cutting, carving, sanding and detailing out the car. Consider: Are the cars extra ornaments made by the owner or something bought and attached?
- Color and Appearance – Use of color and outward appearance. Take into account the painting of the car and its overall texture. Is the color and paint even all over, is the appearance pleasing to the eye?

Theme – The Section shares the District theme and theme-related guidelines. This year's theme is:

“West-The Gold Rush” The scripture is Psalms 119:140 – “I love your commands more than gold, more than pure gold.”

For additional theme information, refer to the District website at www.tnrangers.org

- Your Outpost number should be displayed on your car. This information can be on the bottom of the car if necessary.

Pinewood Derby Officer Roles and Responsibilities

Sectional Pinewood Derby Coordinator – *Shaen Phillips*

The Sectional Pinewood Derby Coordinator is responsible for organizing the event which will include but not limited to the following:

- Determining location of the race
- Assigning positions of Pinewood Derby Officers
- Appropriating all necessary resources
- Scheduling special activities
- Determining rules for competition

Assistant Sectional Pinewood Derby Coordinator– *Angela Phillips*

The Assistant Sectional Pinewood Derby Coordinator is responsible for organizing the event which will include but not limited to the following:

- Assist the Sectional Pinewood Derby Coordinator in any or all of the responsibilities listed above

Track Officer – *Robert Stafford*

The Track Officer responsibilities will include but not limited to the following:

- Confirming location of the race and making all necessary arrangements with the hosting church or facility
- Setup the track the night before the race
- Tear down the tracks after the race
- Conducting the actual races

Head Judge – *James Hanks*

The Head Judge responsibilities will include but not limited to the following:

- Assign the positions of Assistant Judges (should be at least one per race track, preferably two & three to judge design)
- Assign the position of Official Score Keeper
- Coordinate the efforts of the Assistant Judges and Score Keeper, making sure each Judge has the necessary forms for judging
- Compile and present results to the Pinewood Derby Coordinator

Assistant Judge

The Assistant Judge responsibilities will include but not limited to the following:

- Make any necessary rulings required for each race
- Judge the design of the cars in an impartial and unbiased way
- Assist the Head Judge

Official Score Keeper – *Jeremy Payant*

The Official Score Keeper responsibilities will include but not limited to the following:

- Manage the “super timer” software
- Enter all racers in the “super timer” complete with car class (category)
- Work with the Head Judge and Assistant Judges during the races
- Provide results to the Pinewood Derby Coordinator

Concessions Officer – *Thom Throne*

The Concessions Officer responsibilities will include but not limited to the following:

- Recruiting personnel to work the concessions stand
- Determine the type of food and drinks to be offered for donations
- Determine the amount of food and drinks to be offered for donations
- Determine the suggested donation for the food and drinks
- Purchase the food and drinks to be offered for donations

Publicity Officer

The Publicity Officer responsibilities will include but not limited to the following:

- Make flyers for the event
- Distribute flyers to all outposts in the section
- Advertise accordingly

“Best Looking Racer” Pinewood Derby Judging Form

Category: (circle one) RK, DR, AR/ER, Girls, Adult

Name: _____

Car # _____

Entries will be judged in the following areas;

Originality: 10 9 8 7 6 5 4 3 2 1 0

Was the design the idea of the artist himself? How much creative thought went into the design?

Craftsmanship: 10 9 8 7 6 5 4 3 2 1 0

The skill the workman showed in cutting, carving, sanding and detailing the car. Did the owner make the car's extra ornaments or were they something bought and attached?

Color and Appearance: 10 9 8 7 6 5 4 3 2 1 0

What is the outward appearance? Is the paint job appealing? Is the color and paint even all over? Is the appearance pleasing to the eye?

Outpost Information: 10 9 8 7 6 5 4 3 2 1 0

Is the outpost number on the car? Is 2011 TN District Ranger Adventure Week indicated? (This information can be on the bottom)

Theme Related: 10 9 8 7 6 5 4 3 2 1 0

Is the car theme related – tastefully incorporated into the design of the car?

Spiritual Awareness: 10 9 8 7 6 5 4 3 2 1 0

Is there a spiritual awareness – tastefully incorporated into the design of the car?

_____ **Total Points**

Note: The pinewood derby car is to be planned and built by the individual who enters it. Naturally, the leaders and fathers will assist in the construction of their child's car but should allow the boys/girls to do most of the work! Their own work is what we are looking for and is what they will be proudest of.

2012 Memphis Section Pinewood Derby Car Pre-Registration Form

OP# _____ Church _____

Circle Age Group: **RK DR AR/ER Girls Adult**
Only one age group (class) per sheet

Owner's Name	Competition		Weight	Amount Due	Paid
	Race	Design			
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

Total Amount Paid _____