

# Pack 1417 2010 Pinewood Derby

## Location

Davis Elementary School Cafeteria

### 1. Time and Date

Pre-Registration and Inspection: **Friday, January 22, 2010, 7:00 – 9:00 PM**

Late Registration: **Saturday, January 23, 2010, 8:00 – 8:30 AM**

Racing: **Saturday, January 24, 2010, 8:30 – 12:30 PM**

### 2. Quick review of race day rules

- 2.a. The key to having a fun race day is good behavior.
- 2.b. Scouts must be present and in a Class A uniform to race.
- 2.c. Only racers of specific rank are allowed in pit row.
- 2.d. Races conducted in "heats;" each car will race in all lanes.
- 2.e. Scouts will be called to place their cars on the track.
- 2.f. As races are completed for each rank, the top 3 fastest cars will be announced.
- 2.g. Winning cars will be held by officials for Pack championship races.
- 2.h. Track officials direct all racing activities, apply rules, and make decisions.
- 2.i. Pinewood Derby official's decisions are final.
- 2.j. Good sportsmanship is expected throughout the event.

### 3. Participants

All Tiger Cubs, Bear & Wolf Scouts, and Webelos registered in Pack 1417 may enter a car. Each participant **must** be present and in **Class A uniform** to race his car.

### 4. Spirit and Safety

- 4.a. This is a team activity but adult assistance should be kept to a minimum in the construction of the car. Safe use of cutting, or power, tools is an example of areas in which adult assistance may be required.
- 4.b. All participants are expected to exhibit good sportsmanship. Good sportsmanship includes being a gracious winner and loser and offering encouragement to other competitors. Examples of good sportsmanship will be rewarded after the race.
- 4.c. **Above all, DO YOUR BEST! Everyone is a WINNER!**

### 5. Registration

- 5.a. All entries are strongly urged to pre-register on the Friday before race day. Any cars not registered will be allowed to register the morning of the race. However, they will not be eligible for the beauty contest.
- 5.b. Once a car has passed inspection, it will be impounded until after the race. If it does not pass inspection, there will be a pit area available for minor modifications. If major changes are needed, the car can be taken home and returned for registration on the morning of the race.
- 5.c. **No registration will be allowed after 8:30 AM on the day of the race. Only pre-registered cars will be eligible to compete in the beauty categories.**

## 6. Cars

Only cars built this year may compete. Cars built in previous years are not eligible to race. **Cars must be built using the kits given to each boy during the December 2009 Pack Meeting. This includes the wood block, wheels and axles. All four wheels must be used. No other type of these items from other kits or purchased separately will be allowed to compete for position and trophies. They will be allowed to race, but cannot win in either the Beauty Contest or any races. Decorations can be added to the items in the kit.**

### 6.a. Weight and Dimensions

- 6.a.1 Maximum overall **width** (including wheels & axles) **shall not exceed 2 ¾ inches.**
- 6.a.2 Maximum **length shall not exceed 7 inches.**
- 6.a.3 Minimum **width between wheels shall be 1-¾ inches.**
- 6.a.4 **Minimum clearance between bottom of car and track shall be 3/8 inches.**
- 6.a.5 **Weight shall not exceed 5.0 ounces (141.75 grams)** as determined at weigh-in by the official Pack scale.

### 6.b. Modifications

- 6.b.1 **ONLY** the wheels and axles supplied with the car kit are permissible. **No speed axles are allowed.** All concealed axles are subject to removal for inspection. Use glue to hold the pin axle firmly in the body.
- 6.b.2 No wafering or extensive tread rounding of the wheels is allowed. Remove mold projections on wheels by sanding lightly. Sanding of the entire wheels is not allowed. Hubcaps are not permitted.
- 6.b.3 Wheel bearings, washers, and bushings are not permitted. The car must be freewheeling with no starting or propulsion device. Mercury may not be used, as it is a potential health hazard.

### 6.c. Other Factors

- 6.c.1 **Lubrication is not allowed inside the school. It must be added to the car outside of the school.** Only dry, powdered lubricants such as powdered graphite or Teflon may be used. Once the car is weighed-in and inspected, no further lubrication or changes to the car are permitted. **Liquid lubricants are prohibited. No lubricants are allowed on outer wheel surfaces. All excess lubricant must be wiped clean.**
- 6.c.2 No loose materials of any kind are permitted in, or on, the car.
- 6.c.3 All finish surfaces of the car and wheels must be dry and tack free. Test with tissue paper lightly pressed to detect adhesion.

## 7. Awards

The race officials will supervise qualification of all cars, adjudicate, and conduct the race. All decisions by the race officials are final. **Only those cars registered on the Friday before race day will be allowed to compete for beauty prizes.**

### 7.a. Fastest Cars

- 7.a.1 **Winners will be determined by the total finishing time.** Each boy will race on each lane once and the times will be totaled to prevent any track bias. This is based on cumulative time from racing in each lane and not number of heats won. Therefore, a car could win two heats and still not place in the top three fastest cars.
- 7.a.2 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place in each Rank will be awarded. These cars will advance to the Pack final.
- 7.a.3 Top three places in the Pack will be awarded.

### 7.b. Beauty Contest

1st, 2nd, and 3rd place will be awarded in each of the following beauty classifications.

- 7.b.1 USA Pride
- 7.b.2 Cub Scout Pride
- 7.b.3 Most Unusual
- 7.b.4 Looks the Fastest
- 7.b.5 Most Futuristic

7.b.6 Not Pretty But Proud

7.b.7 Judges Choice

## **8. Broken Cars**

- 8.a. If a car jumps off the track or interferes with another car, the heat will be run again. If the same car leaves the lane a second time, it will be disqualified.
- 8.b. If a car loses a wheel and can be repaired in a reasonable time, the heat will be run again. Otherwise, the car will be disqualified.
- 8.c. There will be a pit area for minor repairs on Friday evening and Saturday morning.

## **9. Additional Races**

There will be a race for adults and siblings. These participants must supply their own car kits (available at the Scout Shop). The above rules apply. This is for fun only and no awards will be given to the winners.