



## **Pinewood Derby Race Day is Sunday, March 21st, 2010**

Race Day provides the opportunity for Scouts to show their cars and compete in fun and friendly races. Trophies will be awarded for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> places within each den and for the overall Pack. All participants will receive a Pinewood Derby Patch and a participation ribbon. We will also hold a parent/sibling race for non-Scout car builders. The event also includes a Design Judging Contest for various categories.

Event Time: 1:00pm-3:00pm

Location: Solana Highlands Elementary

## **Racing Trials on Sunday, March 14th, 2010 (optional)**

Join us a week prior to race day at Solana Highlands to test race your car. This is an opportunity to race your car on the official track and be certain that your car meets weight and measurement regulations. Stop by and test your car. If you haven't completed or even started your car come get some help from our in-house experts.

Event Time: 1:00pm-3:00pm

Location: Solana Highlands Elementary

## **Rules and Regulations**

Pack 734 will follow the Rules and Regulations for racing at the *San Diego 500*. Car specifications are printed on the back of this sheet.

## **Design Judging**

Cars will be judged and trophies awarded for these categories: Most Colorful, Most Humorous, Most Patriotic, Most Futuristic, Most Imaginative, Fastest Looking, Best Design, Best Scout Spirit, Olympic Spirit, Judges Choice. Representatives from our sponsor organization, The Optimist Club will be judging this event.

## **Volunteers Needed**

If you would like to volunteer to help at the Pinewood Derby Trials/Races, please contact Tom McCadden at [tom.mccadden@vistage.com](mailto:tom.mccadden@vistage.com). Please volunteer to help our kids!

## **District Finals on Saturday, April 17th, 2010**

Our "Pack Champion" will be invited to race at the *San Diego 500*. This Pinewood Derby race brings together all Pack winners from the Desert Pacific Council to compete in races for District and Council Championships. The *San Diego 500* is held during the Scout Fair at *QUALCOMM Stadium* on Saturday, April 17th, 2010.

# San Diego 500 Pinewood Derby

## Car Specifications

### ***Width:***

Overall width of the car, including wheels, shall not exceed two and  $\frac{3}{4}$  inches (2.75"). The body width where the axles attach to the wheels shall not be less than one and  $\frac{3}{4}$  inches (1.75").

### ***Length:***

Overall car length may not exceed seven inches (7.00"). The kits often supply wood blanks longer than 7 inches.

### ***Height:***

Overall car height may not exceed three inches (3.00"). This prevents tall cars from crashing into the finish line and electronic lane judge.

### ***Weight:***

Total weight of the car shall not exceed five ounces (5.0oz). (Verified by certified scale).

### ***Wheels:***

Only official Boy Scout Grand Prix racing wheels provided in any of the Pinewood Derby Series Kits are allowed. All wheels must be used. Wheels may not be altered (rounded, narrowed, etc.) except for the removal of burrs. Wheels may not be lathe-turned, thinned, sawed, perforated or machined in any way. Outside wheel diameter should be no less than 1.180". Ready-made modified wheels are not allowed. Wheels must be attached so that there is a minimum of .375" ( $\frac{3}{8}$ ") between the car bottom and the rolling surface to provide track lane guide clearance.

### ***Axles:***

Only metal "nail" type axles provided in BSA Grand Prix Pinewood Derby Kits are allowed. All specifications listed in the kits (as to height of axles for track clearance) must be followed. Axles may be lubricated but the use of wheel bearing, washers or bushings is strictly prohibited. Hubcaps may be used but the head ends of the axles must be available for inspection.

### ***Lubricants:***

Any dry lubricant such as graphite or BSA "Axle lube" is allowed. Oil and other wet lubricants are not permitted.

### ***Springs:***

The car shall not ride on any type of springs or other suspension. The Car must be freewheeling and must not contain any type of auxiliary propulsion or starting device. (No jets, rubber bands, magnets, adhesives, springs, motors, etc.)

### ***Decorative Details:***

May be added provided they do not exceed the maximum weight and dimensions for the car. (Decals, trim, characters, and decorations are allowed if they meet the finished car size and weight rules).

### ***No loose materials:***

The car may be hollowed out and built up to maximum weight by the addition of wood or metal. Any additional materials must be securely built into the body or chassis. Mercury shall not be used for weight addition or other construction purposes, as it is a potential health hazard. Cars must be built using any of the BSA Grand Prix Pinewood Derby Car Series Kits. Additional metal must be used only for weight addition. Axles must be mounted into wood. No portion of other kits will be allowed except for decorative purposes. Structural strength is gained only from the wood body. No metal frames or metal axle support is permitted. Pre-shaped wood body parts are permissible and easier for younger scouts.