

# Freedom Trail District

## Pinewood Derby 2009

### GENERAL RULES

The following rules will be in effect for the Freedom Trail District Pinewood Derby Race. The race will be on May 16 at Christ the Teacher School, 2451 Frazer Road, Newark, Delaware. Weigh in begins at 11:00 a.m. with the race starting at 12:00 p.m. Scouts who didn't take advantage of early registration will need to check in between 10:30 and 11:00 to register your car. Cub Scouts should be dressed in a neat, clean uniform. However, a Cub Scout will not be disqualified because he cannot afford a uniform.

### PROCEDURE

Before May 5, 2009, the first three finishers from each Pack need to register. This should be done as one entry from each pack with the person responsible taking the lead. Registration can be done on-line @ delmarvacouncil.org or by obtaining a paper copy available at roundtable or at the scout Office. Registration is not complete until the monies are paid to Council (\$5:00 per boy). At that time you will be emailed a ticket which you bring to the race. This ticket can then be brought to the way in station bypassing registration. At weigh in you will be receiving a meal ticket for the scout. If you do not register before May 5, 2009, there will be an additional entrance fee of \$5:00. If you have registered and received your ticket, you can check in at normal times.

### RACE PROCEDURE

**Cars will be raced by the Cub Scouts.** The pit area will be restricted to the race officials only, and Cub Scouts can come to the finish line only when his car is racing. At registration, The Scout will present his ticket and car. His car will be weighed, measured, and inspected by the Freedom Trail District Pinewood Derby Pit Officials. This process will ensure compliance with the 2009 racing rules. A digital scale will be used to weigh cars. The weight must be able to resolve to at least .1 ounce. Cars will not be accepted if their weight exceeds five (5) ounces by even the smallest resolution of the balance. A Cub Scout whose car fails any part of the inspection will be given the opportunity to make adjustments to the car. Cars will be reweighed, measured, and inspected until they comply or until the scheduled race starting time. Any car unable to pass inspection before the start of the race will be disqualified and a decision of the judges will determine if the car can race at all. After the Scout has registered, his car, it will be taken by a Freedom Trail District Pinewood Derby Pit Official to the Pit Table to be impounded while the Cub Scout awaits the start of the racing. The pit area will be restricted from access to all outsiders. When called to race, the Scout will proceed to the pit area to cross security checkpoint and wait at the finish line.

In the event of a breakdown of a car during the race, the participant will be given five (5) minutes to repair the car. Only the damaged portion of the car may be modified, and each scout is allowed only one repair. The Scout must do work with assistance from his parent or guardian. Freedom trail District Pinewood Derby Pit Officials will re-inspect any car that is serviced during the race. The Race Officials may choose to continue with other race heats to avoid long delays in the race schedule. The damaged car must be raced before the race proceeds to the next level of elimination. All Cub Scouts will race **every** round. This insures fun for all that attend.

### THE CAR

The car must be newly built for the current Cub Scouting year. The car should be substantially built by the Scout. Parental supervision in the construction of the car is encouraged. The body of the car must be made from the block of wood provided by the Pack, which is in the form of an official B.S.A. Pinewood Derby Kit. \* The wheels must be placed in the slots provided. If a wheel is broken and a new slot is needed, the slot cannot exceed ¼ of an inch from the original position

(the original slots are cut at 4½"). You may not paint the bottom of the car. If you need to put a sealant coat on the bottom of the car, it must be clear so that any alterations on the bottom of the car are apparent upon visual inspection. Wheels may not be designed to ride upon the guide strip of the track. Loose pieces that fall off during the race are not permitted. If the front of the car is designed to gain an unfair advantage at the start or interferes with a fair start, the car will be disqualified. No notching allowed. The axles of the car must be from the official B.S.A. Pinewood Derby Kit, as supplied by the Pack, or an official Pinewood Derby wheel replacement kit. Wheels may not be altered in any way, except that mold projection defects on wheel treads may be removed by sanding lightly. The wheels may not be sanded or trimmed to enhance performance. The decorative dots on the wheel treads may not be removed. If wheel sanding or trimming is detected, the car will be disqualified. The wheels must be attached to the car with the pins provided in the kit. No cars will be accepted where bearings, washers, or spacers are used as part of the wheel assembly. The official wheel width is 0.34". The total weight of the car may not exceed 5 ounces. The maximum width of the car, including wheels, may not exceed 2.75 inches. The maximum length of the car may not exceed 7 inches. The motion of the car may not be mechanically aided (motor, springs, CO2 cartridges, rubber bands, etc. are prohibited). All metallic attached objects that contain lead must be covered with paint or fingernail polish. Lubrication—only graphite powder or the new B.S.A. graphite lubes T102/polytetra fluoroethylene may be used to lubricate the wheels. (Warning—other lubricants may damage the plastic wheels and keep them from turning freely.) **No lubricants will be provided.** All lubrication must be done over a trashcan or outside before the car is impounded. Once the car is impounded, it may not be re-lubricated except when the wheel is damaged or becomes dislodged during a race.

## **THE TRACK**

The Freedom Trail District Pinewood Derby will use a 4 Lane track which provides the following lane clearance: Each car will run 4 times once in each lane. The Derby Master Program will decide the order and the standings

As you know, the Pinewood Committee has the final say on the rules. But, there's a catch! What if your son wants to race at the District or Council-level, and / or at other races such as at the Scout-O-Rama? They will have Committee-based rules too. Their rules may differ from your Pack's. If your son's car is built according to your Pack's rules, and without regard to the rules governing the other races he's interested in, he may find his car disqualified from subsequent race events! So, do your homework and investigations **before** your son builds his car! (*..... and if you can, make sure your Committee takes the other local race rules into consideration when defining your Pack rules.*)