**Three Rivers 2024 District Pinewood Derby**

**Car Construction Specifications**

**Race Rules and Regulations**

* **Material:** Axles, wheels, and body wood must be from the **Official BSA Pinewood Derby Kit;** or the **BSA Block, and BSA stock wheels and axles**. The **Official BSA Pinewood Derby Wheels and Axles** kit (colored wheels) may be used to substitute for the original kit wheels. Other kits purchased at hobby shops or internet sites are not the same and will not be allowed.
* **Weight:** The weight of the race car will not exceed **5.0 ounces** as measured with official scales, set with an official weight. The scale used at check-in/registration for the race is the official scale and measurements using this scale will be final.
* **Wheels and Axles:** The car shall roll on the wheels from the kit. The wheels shall turn about the axle nails from the kit. The axle nails shall be firmly affixed to the wood of the car body, and MUST be placed in the original 'axle grooves' in the supplied wooden block. It must be obvious to the judges that the grooves, wheels, and the nails from the kit are being used. Wheel bearings, washers, bushings and springs are prohibited on the wheels or axles. All wheels must touch the track.
* **Size:** Race cars may be no longer than 7 inches, nor wider than 2-3/4 (2.75) inches, as determined by the official gauges during the Registration and Inspection. Underside clearance of at least 3/8 (0.375) inches and inside wheel to wheel clearance of at least 1-3/4 (1.75) inches is recommended, so that the car will run on the race track. Adequate clearance is the responsibility of the race car builder. **The front center of the car should not be pointed and should be flat** so that the car will rest securely on the starting pin. No portion of the front of the car can extend beyond the front center of the car.
* **Weights and Attachment:** Weight may be added to the car and will be considered part of the car for purposes of all measurements. "Weight" is considered to be any material on the car that is not provided in the kit. All weight must be securely fastened to the car. Weights shall be passive, i.e. non-movable, non-magnetic, non-electric, etc.
* **Wheel Treatment:** Official BSA wheels must be used. The wheels may not be cut, drilled, beveled, or rounded. You may remove the seams and imperfections from the wheels by lightly sanding.
* **Gravity Powered:** The race car may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. (For instance, this provision disqualifies cars with sticky substances on the front of the car and protrusions which may catch on the starting pin.) The car must be freewheeling with no starting devices.
* **Lubricants:** Only graphite will be allowed for lubricating the wheels. Lubricants may not foul the track.

**Three Rivers 2024 District Pinewood Derby Racing Regulations:**

* The Cub Scout’s name, year and Pack number must be on the bottom of the car. Only cars made for **this year’s Pinewood Derby will be allowed to race**. Previous year’s entries will not be allowed.
* Scouts must sign in at the door with their name, rank and Pack number and pay the **appropriate entry fee** to race.
* Each car must go through an inspection process. If the car fails any of the outlined specifications in the regulations for car construction, it will be returned to the Cub Scout for repair, and he must go through the inspection process again.
* When the car has passed inspection, it will be placed on the impound table. **No one will be allowed to handle a car until it is called to race, and then, only the Cub Scout will be allowed to handle his/her car.**
* Scouts must race their own car. Another person or scout cannot race a car for a scout who is sick, out of town, etc.
* **If weights or any other item falls off the car, the Cub Scout will have 5 minutes to fix the car. The Cub Scout is the only person allowed to fix the car except for Lions and Tigers, For these younger Cub Scouts, one adult can help the scout. In all cases a Pinewood Derby staffer will monitor the Cub Scout fixing the car to ensure no rules are inadvertently compromised. The 5-minute rule can only be used once. If any item or wheel falls off again, the car must run as is.**
* If, according to the judges, the track malfunctions, the cars racing at that time will re-run their race once the track is working properly. Other cars in the competition will not run an extra race. Every effort is made to ensure proper track function. However, if a track malfunction causes some cars to run an extra race that is simply the luck of the draw.
* Please note that the pit crews staffing the racetracks are volunteers. Mistakes can be made. However, we will make every effort to correct any errors as soon as they have been pointed out to us. Parents are encouraged to respectfully notify the pit crew as soon as they detect a possible error so that it can be resolved in an expedient manner. Remember, the purpose of the Derby is to have fun and to exhibit sportsmanship. Excessive arguing with the pit crew runs counter to this purpose. The Race Official will have the responsibility to disqualify those cars that do not meet these rules. The Race Official must be an adult that does not have a youth competing. The Race Official has the final say on all race results. Arguing with the race results will result in immediate disqualification.