KING BEAVER DISTRICT

2016 PINEWOOD DERBY RULES

March 19th, 2016

GENERAL: (Applies to all Cub Events)

G-1. Essential Materials: All cars entered shall be constructed from the Official Grand Prix Pinewood Derby Kit (referred to below as the kit) as sold by the Scout Service Center, 830 Morton Ave. Ext., Butler, PA, 16001. (Kits may be purchased elsewhere if they are of the exact type specified above.)

G-2. Three Cub Scouts from each pack in the King Beaver District are invited to compete in the King Beaver District Pinewood Derby Race, which will be held at the Union Township Middle School on Saturday, March 21. Registration and qualifying will begin at 9:00am, and the race will begin at 10:00am. The competition is open to any boy who participated with their pack this year, and the three participants will be chosen by their individual packs.

G-3. Attendance: Only the Cub Scout may enter his car or cars. This means that the Cub Scout must be present to enter his car into competition.

G-4. "New Work": Construction of entries must not have begun before the previous year's King Beaver District Pinewood Derby Races.

G-5. Single Trophy per Boy: No boy may win more than one trophy. If a scout wins the trophy in the racing event, he will not win a trophy in the design events.

G-7. Single Car per Boy per Event: A scout may enter only 1 car per event.

EVENT: FASTEST CAR:

Qualification:

Each pack may enter up to three scouts from each Cub Scout Pack. In case of absence a Cub from the same pack may be substituted on the day of the race. The substitute must race his own car. No Cub may race two cars.

Technical Standards:

The inspection judges at race-day check-in are responsible to evaluate each car's adherence to the technical standards. Their decision may be appealed to the inspection chairman and the event chairman, who, after consultation with the inspection team, the SCOUT, and his parent/assistant, shall render a final, binding decision.

T-1. Material: Race cars shall be constructed for this event from the parts contained in the Official Grand Prix Pinewood Derby Kit (referred to below as the kit) as sold by the Scout Service Center, 830 Morton Ave. Ext., Butler, PA, 16001. Materials from the kit may be supplemented but not replaced.

T-2. Weight: Race cars may weigh no more than five (5) ounces (total weight) as determined on the official scales during race day inspection.

T-3. 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. The axle dimensions may not be changed substantially. The wheelbase dimensions may not be changed (use the grooves provided in the kit for the placement of the wheels). The outside surface of the axle head (the non-contact surface) may not be changed substantially, such as, by polishing. It must be obvious to the judges that the wheels and the nails from the kit are being used.

T-4. Size: Race cars may be no longer than 7 inches, nor wider than 2 3/4 (2.75) inches, nor taller than 3 inches, as determined by the official gages during race day 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 racetrack. Adequate clearance is the responsibility of the race car builder.)

T-5. 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, e.g. by permanent glue, nails or screws, but not by "sticky substances", e.g. tape, or tack spray. Weights shall be passive, i.e. non-moveable, non-magnetic, non-electric, non-sticky, etc. (If you can hear the weights rattling around inside the car, they are not non-moveable.)

T-6. Wheels: Wheel treatment (hub and tread smoothing and polishing) may not result in substantial removal of mass nor in reducing the tread (track contact) width from the original kit wheels. Wheel tread surface must be cylindrical. The words "Official B.S.A. Made in U.S.A." and other lettering on the wheels shall remain intact and clearly visible to the inspector. Some of the original "tread marks" on the wheel face must be intact, i.e. apparent to the inspector.

T-7. Unacceptable Construction: The following may NOT be used in conjunction with the wheels or axles: hubcaps, washers, inserts, sleeves, bearings.

T-8. 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.)

T-9. Lubricants: Lubricants must be dry at the time of inspection and racing.

T-10. Staging: The entire car must stage behind the starting pin.

T-11. Body: The car body may have no moving parts.

T-12. Non-qualifying cars will not be permitted to compete in the speed race, but may still qualify for the design awards.

Conduct of the Races:

Track officials are responsible for the proper conduct of the races. Decisions of track officials on questions of rules interpretations and procedure may be appealed to the event chairman. Decisions of track officials on questions of fact may not be appealed beyond the track chairman.

Scouts AND PARENTS should also be familiar with these rules.

C-1. Inspection Gauges: All inspection will be conducted by one team at a special inspection area using scales and gauges approved by the Chairman. Please stress this fact to all members of your Pack: They should be prepared to make adjustments to their cars if necessary.)

C-2. Impounding: Once the car has passed inspection and received its number sticker, the car will be placed on the table provided, and must not be lubricated or otherwise improved until the racing is complete.

C-3. Car Handling Responsibility: Scouts shall be responsible to retrieve their cars at the finish line (after the race has been called) and return their cars to the pit after their heat is finished. If, in the opinion of the track chairman, a scout's physical limitations prevent him from fully complying with this requirement, the scout may nominate an assistant of approximately the same age who serves subject to approval of the track chairman. In any case, the scout shall participate up to his limitations.

C-4. Lane Assignment: Lane assignment for each heat shall be determined by lot.

C-5. Car Repair: If, during the race, a wheel falls off or the car becomes otherwise damaged, then the SCOUT may to the best of his ability perform repairs. The SCOUT may seek advice for repairing the car, but may receive no other assistance. If a car is damaged due to track fault or due to fault of another car or SCOUT, then the track chairman, at his sole discretion, may allow additional repair assistance.

C-6. Car Interference: If, during a race heat, a car leaves its lane and, in so doing, interferes with another racer, then the car at fault shall be declared to have lost the race heat. (However, see C-9.)

C-7. Car Leaves Lane: If, during a race heat, a car leaves its lane but proceeds down the track in a manner that does not interfere with its opponent, then the race will be called normally. (However, see C-9.)

C-8. Car Leaves Track: If, during a race heat, a car leaves the track without interfering with its opponent, it shall be considered to have ended its heat at that point. (However, see C-9.)

C-9. Track Fault: If a car leaves its lane, at his sole discretion, the track chairman may inspect the track and, if a track fault is found which probably caused the initial violation, the track chairman may order the race heat to be rerun after the track is repaired.

C-10. No Finishers: If, during a race heat, no car reaches the finish line on the track, the car which went the farthest in its lane shall be declared as the heat winner.

C-11. Appeals: The Cub Scout must make all questions of rules interpretations, procedure and fact to the track officials promptly. A station at each track will be designated for this purpose.

C-12. NoCall: If the winner of a heat cannot be declared by a majority of the judges (2 judges or 1 Judge and an automated finish line device), the track chairperson may order the heat to be re-run.

EVENT: DESIGN AWARDS:

Awards will be made in several design categories, such as the Best Design, most colorful car, most unusual design, and most patriotic.

Additional copies of these regulations are available by calling Bruce Gibson at 724-944-8551, or email [bgibson@gbtechnology.com](mailto:bgibson@gbtechnology.com).