



## **North Carolina Conference Royal Rangers Official Pinewood Derby Rules**

1. The car must be made from the official pinewood derby kit sold by LifeSprings at Franklin Springs Georgia 1-800-541-1376.
2. The car must be made by the participant.
3. The axle slots can not be moved from their location.
4. Wheel bearings of any type are not permitted.
5. The maximum weight of the car may not exceed 5 oz. (141.75g) as weighed on the official scales.
6. All cars will be weighed in at registration on the same set of scales. These are the official scales of the race. The weight of the car on any other scales will not have any bearing on the cars official weight on the official scales.
7. All cars must have been made within the past 12months. Cars from previous years may not be raced.
8. Weight may be added to bring the car up to maximum weight of 5 ounces. Any added weight must be firmly attached to or built into the car. Any loose material will be removed at registration.
9. Added accessories such as windshields, drivers etc. are allowed as long as they do not cause the car to exceed the maximum length, width or weight and are firmly attached to the car.
10. Maximum length of the car shall not exceed 7inches.
11. Maximum width of the car, including wheels and axles, shall not exceed 2 3/4 inches.
12. All cars must have a ground clearance of at least 3/8 inches.
13. The car may not ride on springs or have any type of self propelling or starting devices.
14. Wheels may be sanded to remove ridges but may not be tapered. The entire wheel surface of all wheels must touch the track.
15. Hubcaps or any other material may not be installed on the wheels in such a way as to hold graphite against the axle.
16. Cars with wet paint will not be accepted at registration.
17. If a car leaves its lane and interferes with another car the heat will be run again. If the same car leaves its lane again it will be disqualified from the race.
18. If a car suffers a mechanical problem such as losing an axle, or a wheel, the outpost commander and the ranger will be allowed 10 minutes to repair the car. Lubrication may not be applied during any such repairs.
19. Repair parts and tools must be furnished by the participant.
20. Rulings by the judges are final.