

# 2021 Suncoast District Pinewood Derby Official Rules

**\*\*\*\*Cars can only be propelled by gravity – no rockets, compressed air or anything flammable.**

1. The District Derby car must be the same car that qualified at the Pack Derby.
2. Only one car per Scout can will be allowed to register.
3. The car may not exceed **5.0** ounces as determined by the scale at check-in.
4. Maximum width including tires and axles must not exceed 2 3/4".
5. Minimum width of the body at the axles should be 1 3/4".
6. Maximum length must not exceed 7".
7. Low hanging weights will often drag on the track. Bottom clearance should be 3/8".
8. The wheelbase (distance between the axles) must not exceed the distance between the precut axle slots on the standard pinewood block which is 4 3/8". Shortening the wheelbase will be permitted.
9. All four (and only four) wheels must be used, and all four must touch the ground when placed on a level surface. No wheel shall ride upon the center guide strip. No extra guide pins, rollers or wheels designed to ride on or against the center guide strip will be allowed.
10. Axles used on your Pinewood Derby car must be the ones included in the kit or official BSA axles available at Michaels, Hobby Lobby or the Scout Shop. Axles cannot be manufactured from a different material and shaped to conform to the dimensions of the official BSA axles. No chrome, nickel plated, or coated axles permitted.
11. Axles cannot be grooved or slotted.
12. No store-bought preformed bodies – car must be made from pinewood block in the Official BSA Pinewood Derby Kit.
13. The wheels may be lightly sanded or polished to remove bumps and blemishes. They must not be ground down, grooved, hollowed out, carved, cut, shaved or otherwise redesigned. Original ridges and raised letters must still be visible.
14. No magnet of any type will be allowed on any car.
15. The race car may not be constructed in such a way that the track's starting mechanism adds 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.) No part of the car may extend forward of the point where the car touches the starting pin. Do not shape front of car to a sharp point.
16. The wheels should be lubricated with graphite, powdered silicone or wheel bore polish. Oil and other liquid lubricants are prohibited.
17. Wheel bearings, washers, and bushings are prohibited.
18. The car must not ride on any kind of springs or suspension system.
19. Loose materials are not allowed on the cars.
20. No moving parts (other than the wheels) are allowed. No liquid weights.