

# Modified Pinewood Derby - Rules



# Garden City Drags



## **I. Eligibility – Registration**

- This is open to anyone 18+ years old
- **Pre-race registration is required.** You can register by contacting Stacie Cline at stacie.cline@scouting.org or calling 406-490-3848. Cost to enter a car is \$20

## **II. Body Specifications**

- **Width** – not to exceed 2 ¾ inches (7cm)
- **Length** – not to exceed 7 inches (17.8cm)
- **Height** – Must have clearance under Finishing Gate – not to exceed 5 inches
- **Weight** – not to exceed 5.0 ounces – **143.4 grams measured on Official Race Scale**
  1. Overweight cars may be reduced to 5.0 ounces (143.4 grams) or below before they can be officially entered, at the Race Day Check in
- **Center Rail Clearance** – Cars must clear the center rail which is 1 5/8 inches wide by ¼ inch tall along the entire length of the car.
- **Wheelbase** – No wheelbase restrictions
- **Body Design** – may be enhanced by adding other stable materials such as plastic, metal, or details. All additions must be firmly attached and conform to size specifications. No loose materials will be allowed on the cars.
- **No part of the car's body, or attachments can extend beyond the starting peg on the track what so ever.** – the length is not to exceed 7 inches.

## **III. The following modifications are prohibited**

1. Having any part of the car go beyond the starting peg
2. Starting or finish line devices
3. Electronic or lighting devices
4. No Liquids, wet paint, sticky substances, glass or excessively fragile parts, loose objects on car or magnets
5. Propellants (car must be gravity powered)

## **IV. Wheels**

1. Any
2. 31.00mm maximum diameter

## **V. Axles**

1. Any

## **VI. Lubricants**

1. Graphite, Teflon, Nyoil or Krytox only

## **VII. Race Operations and Miscellaneous Rules**

- **All Cars MUST pass inspection before being allowed to race based on the rules stated in I. through VI.**
  - An approved inspected car will then be checked in and not be touched by anyone but the race officials until the cars are released by Race Officials.
  - All lubrication of wheels must take place prior to final inspection check in
  - Officials have the Right to Disqualify Any Car, which does not meet all of the stated rules and specifications. The Officials Decision is Final.
    - 1. Appealing a decision – if a Race Official makes a ruling and you wish to appeal it – all Officials will be assembled and based on majority rule the decision will be upheld or overturned.
- **Each Car will race multiple times in different lanes**
  - Each race is timed with electronic equipment.
  - In the event the equipment fails, the race(s) will be re-run.
  - The slowest time will be dropped and the **average of the remaining times will determine the results** for each racer – **Composite Time**
  - In the event of a tie(s) a run-off will be run between any of the Cars needed to fill the slots for the finals race using the same method of running once in each lane and taking the average of the fastest 3 times.
- **During Races**
  - If a car jumps the track and interferes with another car, then the race will automatically have to be re-run.
    - 1. If the same car jumps the track again, then it is disqualified (after interfering)
  - If a car jumps the track and does not interfere with another car, and finishes the race it will not be re-run.
  - If a car jumps the track and does not interfere with another car, but does not cross the finish line a time of 9.9999 seconds will be assigned to that car's race.
  - If an item affixed to a car falls off during a race, and in the opinion of the race official the car is still able to race, repairs will not be allowed.
  - If a car suffers a mechanical failure or is unable to finish, the individual will be allowed 3 minutes to make the repair under the supervision of a race official. No weight can be added as part of the repair action. If the car is unfit to race after the 3-minute period, or becomes disabled after further racing, it will be disqualified and taken out of the race. No other modifications are allowed – such as re- lubing, only the repair to the item(s) can be performed.
  - Any car that is discovered to be illegal during the competition by a Race Official will be disqualified from competition.

