

# PACK 378

## OFFICIAL PINWOOD DERBY RULES (2018)

### 1. Please read all of the Rules and Regulations listed below before check-in

- A. Your car must have been made since last year's pack race, no exceptions.
- B. All cars must pass inspection by race officials before the car will be allowed to race.
- C. The level of help you provide your scout should be based on his age and abilities.
- D. Supervise your children using all power tools to provide a safe building environment

### 2. Design Awards

- A. 5 Design Awards will be given out to our Scouts whose entries are judged to be the best in each of the following categories: **Most Original, Best Design, Fastest Looking, Best Scouting Theme, and Most Extreme**. So use your imagination and good Luck.
- B. Scouts you must register your car at the Early Check in on Thursday the day before the race for your car to be eligible to be judged.

### 3. Car Dimension Guidelines

- A. The main body structure must be made from the wood provided in your BSA Pinewood Derby Kit.
- B. The total width of the car shall not exceed 2 3/4 inches (including the wheels and accessories)
- C. The length of the car shall not exceed 7 inches (including the wheels and accessories and no part can protrude beyond the front of the car body)
- D. The height of the car shall not exceed 7 1/2 inches.
- E. The underside clearance of the car (including weights) must be at least 5/16 of an inch.
- F. The inside wheel-to-wheel clearance is at least 1 3/4 inches.
- G. The nose of the car shall maintain a flat surface a minimum of 1/2 inch wide when looking down on the car (no pointed noses, they will not fit the track starting gate)

### 4. Weight Guidelines

- A. The total weight of the car shall not exceed 5.00 ounces
- B. Weights that are added to the car must be attached by glue, nails, or screws.
- C. Taping weights on is not allowed; officials do not want any objects falling off the cars onto the track.
- D. No loose, moveable, or fluid weights (such as lead shot, mercury, are allowed in on your car)
- E. **TIP:** Your local Post Office has scales to get you close to the desired weight of 5.00 Ounces or less, but the scales at Check In will be the official weight used to race.  
(The Pit Crew located at check-in will be there to help you with the final weight also)
- F. The open weight class will follow all official Pine Wood Derby rules.

## **5. Wheel and Axles**

- A. You must use official BSA Wheels and Axles like the ones provided in your BSA Pinewood Derby Kit.
- B. Screw axles, connecting/single axles, modified wheels, hobby store wheels, or old-style BSA wheels are not allowed.
- C. No rounding or changing contour of tread surface, width, or diameter of wheels is allowed.
- D. Sanding the tread to remove imperfections is allowed.
- E. The BSA insignia on the side of the wheels should be visible.
- F. All four wheels must touch the ground.
- G. Wheel bearings, washers, insert, sleeves, and bushings are prohibited.
- H. **Only dry graphite powder lubrication is allowed.** Any other lubrication will automatically disqualify the car for the entire contest; officials do not want the track fouled.

## **6. Misc Items**

- A. The car shall not ride on any kind or type of springs.
- B. The car should be freewheeling, with no starting devices, magnets, or sticky substances allowed.
- C. If a car leaves the track, runs out of its lane, or interferes with another car, the heat will be rerun. If the same car gets into trouble on the second run, the contestant is disqualified and automatically loses that heat. If, on the second run, another car is interfered with, the heat will be run a third time but without the disqualified car. Loss of body parts during a race, including axles and wheels, will not be reason to repeat the heat.

## **7. Early Check In** is Thursday January 18<sup>th</sup> from 6:00 to 8:00 PM at New World Methodist Church

- A. All cars will be inspected at check in following the Official Pinewood Derby Rules.
- B. If your car does not pass inspection; you will be directed to the Pit Crew Area where our Volunteer Adults will assist you in making the necessary adjustments so your car can pass inspection.
- C. Cars with wet paint will not be allowed to be registered at check in, but will be allowed when the paint is dry
- D. No other modifications or improvements may be made to the car during the contest after check-in. However, wheels and axles may be replaced by race officials if they fall off during the contest.
- E. Once a car has been checked-in, you will not be allowed to touch your car until the final race is over
- F. No lubrication will be allowed after the car has been checked in.

## **8. Race Day Check In** is Friday January 19<sup>th</sup> from 5:30 to 6:30 PM at New World Methodist Church

- A. All cars will be inspected at check in following the Official Pinewood Derby Rules.
- B. If your car does not pass inspection we will have limited time and resources to make changes before the races start. We will do our best to help you get your car race ready.
- C. Please be on time so we can start racing at 7:00 pm

## 9. Race Time is 7:00 PM

- A. Racing order will be: **Siblings, Lion Cubs, Tiger Cubs, Wolf Cubs, Bear Cubs, Webelos 1, Webelos 2, & Open Class**
- B. The top 3 finishers in each of these 5 categories will receive an Award. All Participants in these categories will receive a Patch
- C. The top 2 finishers in each of the Scout Ranks (10 scouts) will advance to the Pack Championship Finals
- D. First, Second and Third place winners in the Pack Championship Finals will receive a trophy.

## 10. Sportsmanship

- A. Sportsmanship is a very important virtue we need to instill in our kids. Winning is easy and losing is hard. Adults help your child to win with humility and lose with dignity and grace.
- B. We expect all in attendance to demonstrate good sportsmanship. The race committee official's decisions will be final. Any scout/parent/audience member disputing the final decisions of a race, or exhibiting unsportsmanlike conduct may be asked to leave the building for the remainder of the contest.

## 11. Race Specials

- A. We will be serving **pizza, cookies, lemonade, and water**, so come hungry.  
(We will be asking for donations to help cover the cost)
- B. We will have Raffles through out the evening for the Scouts.

***EVERYBODY HAVE FUN AND MAY THE BEST CAR WIN!***

## Pack 378 Pinewood Derby Checklist

### Materials:

- Built from wood from authentic BSA kit
- Weights are solid (not liquid) and secured, but not with tape (can use glue, nails, screws, etc.)
- Wheels and axels must be official BSA without modifications (no rounding or changing contour of tread surface, width, or diameter) and should show the BSA insignia on the outside.
- Only dry graphite powder lubricant is allowed. All else will disqualify the car from all races.

### Specifications:

- Width is less than 2.47" including wheels and accessories
- Length is less than 7" including the wheels and accessories
- Height of the car is less than 7.5"
- The underside clearance of the car including weights is at least 5/16 of an inch
- The inside wheel-to-wheel clearance is at least 1.75"
- Weight is 5 ounces or less (even 0.01 over won't qualify for den races, but can compete in "open weight class") **NOTE: The Check In scale is the official weight for the race.**

### Construction:

- Car was made since last year's race (no exceptions)
- All 4 wheels **MUST** touch a level surface
- Nose of the car has a flat surface at least 0.5" wide with nothing protruding beyond that point (no pointed noses as they will not fit the track starting gate)

### Check In:

- Thursday, January 18<sup>th</sup> 6-8 pm – for cars competing in optional design awards (please allow for time inspection and possible modifications)
- Friday, January 19<sup>th</sup> 5:30-6:30 pm – for all remaining cars competing (again, please allow for inspection and possible modifications as races will start at 7 pm sharp)

### Additional Notes:

- ***This page is a quick summary and resource, please also refer to the complete Pack 378 Official Pinewood Derby Rules for this year***