Hiawatha District 2018-2019
Official Pinewood Derby Racing Rules

Scouting participants allowed to race in championship race:
1. Lions, Tigers, Wolves, Bears, Webelos, and AOL.
   a. AOL Scouts (5th Grade) can race as Webelos even if they have graduated to Boy Scouts.
2. The top four finishers from each pack are eligible to race in the District Derby and will have their entrance fee waived.
   a. Individual packs are responsible to decide how the top four finishers are determined.
3. Any Cub Scout that is not one of the top four finishers in their pack can still race in the championship race, but will need to pay the entrance fee.

Open class race:
1. Open to anyone who wishes to build a car and race.
2. Participants will need to follow all the same rules listed below.
3. Cub Scouts are allowed to race in this event, BUT are not allowed to race the same car in both the open and the championship race. Scouts will need to register and race a different car that has not been registered for the championship race.
4. Vintage derby cars are allowed.

Sportsmanship:
1. Scouting encourages good sportsmanship.
2. Scouts should wear full ‘Class A’ uniform as able.
3. Cars will be disqualified if the Scout or his parents display unsportsmanlike/unscout-like conduct.
4. Remember: it is only a race, and the object is for all Scouts to have a great time!

Car Specification:
1. Scouts will ONLY use official BSA Pinewood Derby Kits purchased and built since the prior District Derby.
2. Bodies of other materials and vendors will be disqualified.
3. The body may be shaped, hollowed out, or built up from the original block.
4. No part of the car, including the wheels, may touch the fit box wall behind the pin.
5. Paint, decals, accessory trim pieces, and weights are allowed.
6. Any additions to the original body (drivers, decals, paint, weights, etc.) must be firmly attached.
   a. Weights or other accessories attached to the bottom of the car must be covered using tape or similar material to prevent sharp edges from tearing stop strip.
7. Entire car must fit inside of the official measurement box. See Dimensions section.
8. There is no designated front or back to the supplied body - either end may be the front.
9. Axle slots do not need to be used; holes in any position may be used instead. Overall dimensions and clearance rules still apply.

Wheels & Axles:
1. Only official BSA wheels and axles are allowed.
2. Colored official BSA wheels are allowed.
3. The bottom surface of the wheels may be lightly sanded to remove any blemishes left from manufacturing.
4. Outer wheel surface may be lightly sanded, shaved, or polished to remove surface imperfections and mold casting burrs, but must not be reshaped in any way in an attempt to lighten the wheel, minimize tread contact or alter aerodynamics.
5. Wheels must retain their original tread thickness.
6. Wheel surface must remain flat with full tread width.
7. No coverings can be over the wheel hubs.
8. No washers, bushings, bearings, rubber tubing, or springs are allowed.
9. Axles may be polished if desired.
10. Axles cannot be machined to reduce diameter.

**Dimensions:**
1. The car width at the wheel locations may not be modified. It must be the same as the original kit (1 3/4”).
2. Other portions of the car body width may be changed if desired.
3. Overall width (measured from the outside of the wheels) may not exceed 2 3/4”.
4. Overall length may not exceed 7”. (This includes any weights, decorative tailpipes, etc.)
5. Overall height may not exceed 3” (Point of wheels contacting track up to highest point of car).
6. Minimum clearance below the body must be at least 3/8” to prevent dragging on the guide strip.

**Weight:**
1. The weight of the race-ready car must not exceed five (5) ounces.
2. Weight will be measured using the official scales when the car is registered.
3. After the official weigh-in, no adjustments may be made to the car.
4. Cars must freewheel with no stored energy or movable weights.

**Lubricant:**
1. Both graphite (and other dry lubricants) and oil lubricants are approved for use.
2. NO lubricant tubes of any type are allowed in building where race is held. Apply lubricant to car axles before race outside building or at home.
3. No stored or excessive lubricant is allowed in the hub area.
4. Once car is impounded, no additional lubricant may be applied.

**Inspection process:**
1. Cars will be inspected and weighed by the racing staff during registration at the scheduled times.
2. Cars that fail to meet specifications will not be permitted to race.
3. After final approval, cars will be put into impound area until they are needed for a race.
4. A car can be disqualified at anytime during races for not meeting rule specifications, even if it already passed an inspection.

**Impound process:**
1. Cars must stay in impound area until time for racing and cannot have adjustments done before a race.
2. Once placed into the impound area racers are NOT allowed to touch/access their car until their scheduled race time.
3. If a racer retrieves their car before their scheduled race time, the car will have to be inspected again before being placed back into impound.
4. Cars proceeding to the finals will be impounded until final race.
5. Cars that are not proceeding to the finals will be given back to the Scouts.
Note: In the above left picture you can see the “outer edge tread” which must be maintained.

Axel imperfections can be removed and axels may be polished.