


# Pinewood Derby Construction Steps

1. **Design the Car** - Design on paper first.
2. **Shape the Car** - Band saw, coping saw, sanding usually work best. (Do not make car so thin that added molten weight will burn through the body.)
3. **Add Weight** - Car weight can't exceed 5 oz. If you are melting lead, it is a good idea to add weight BEFORE painting the car. **Assistance with adding weight will only be available at the test day.**
4. **Paint the Car** - Spray paint works best.
5. **Mount Wheels** - The wheels should be square with the car and spin freely. The best lubricant for wheels is powdered graphite. Avoid liquid lubricants, they attract dirt and slow the car down.
6. **When complete** - DON'T PLAY WITH THE CAR!

**CAR DESIGNS, BUILDING TIPS, HELPFUL HINTS, ETC. ARE AVAILABLE ON THE GROUP WEBSITE.**  
Go to [www.2047.org](http://www.2047.org) select **Stockade or Derby**



We will once again webcast the Derby live on YouTube!  
[YouTube.com/csb2047](https://www.youtube.com/csb2047) or [2047.org](https://www.youtube.com/csb2047)

If your boy has someone who would enjoy seeing him race but are unable to attend the race in person - they can watch it live online or anytime after the race!

If you have any questions, need replacement parts or require assistance call or text **Jim at 536-4077** or [jim@2047.org](mailto:jim@2047.org) email

**Times, dates and how we host the derby may change due to any potential Covid restrictions in place at the time.**

**We will keep parents informed via our Facebook page (csb2047), Text Message and our webpage (2047.org).**

**Derby Kit Cost: \$10. Can be paid at Stockade or on our website (2047.org, left hand side of main page)**

## Derby Car Help Days

(Stockade, Battalion Only)

Saturday, January 16, 11-3

Saturday, January 23, 11-3

Saturday, February 6, 11-3

(times may change due to any Covid restrictions in place)

## Derby Test Day

Sat, February 20 - 11am - 3pm

(times may change due to any Covid restrictions in place)

## Car Due Day

Tues. Stockade, Feb. 23rd

Wed. Stockade, Feb. 24th

**TUESDAY, MARCH  
2ND RACE DAY  
TUESDAY & WEDNESDAY  
STOCKADE  
Everyone is invited!**

**Tentative - NO WEDNESDAY  
STOCKADE MARCH 3rd  
(Pioneer Girls Powderpuff Derby)**

**Derby Regional Race  
for the top racers from our  
Stockade  
Date and location to be  
determined**

# Derby Rules

1. This is a "fun" event. We make cars, we race, we eat junk food. Don't stress.
2. All racers must be active registered members of our group.
3. **Car width and overall length shall not exceed 7" long x 3" wide including wheels, axles and attachments. Minimum bottom clearance between car and track is 3/8".** No part of the car may extend beyond the starting gate. (Indented car noses are prohibited.) Any attachments must fit through the finish line at our race and regional finals.
4. Car kit must be purchased from Stockade and built for this year's race.
5. Only wheels and axles from the official kit can be used and they must be inserted in the provided slots.
6. Car weight can not exceed 5oz. (142 grams).
6. Details such as steering wheel, driver, decals and painting are encouraged as long as these details are securely attached to the car and these details do not cause the car to exceed legal car weight and dimensional specifications.
8. Wheels and axles may be lightly filed, sanded and/or polished to smooth and true them, however original wheel diameter and width must be reasonably maintained and the wheels must remain flat. Wheel's cannot be filled with weight, tapped, or altered except as stated above.
9. A maximum of 2 washers per wheel are allowed and can be purchased at a hardware store. Bearings, bushings, springs, and propulsion devices are prohibited.
10. Stockader's name should be written on the bottom of the car. Cars will be numbered at Stockade prior to the race. There should be no numbers on the car when handed in.
11. Cars with wet paint or missing wheels will not be accepted.

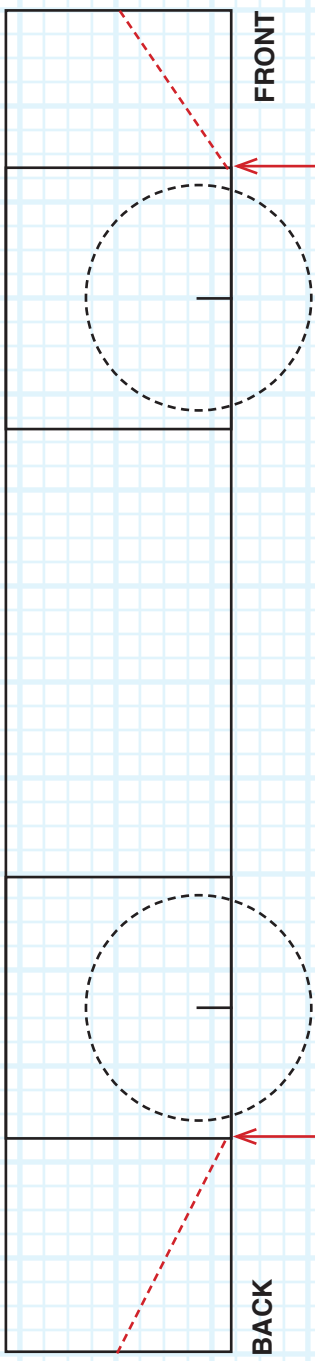
**A Test day will be held prior to the cars being due. This is the ONLY time weight and scales will be available to test the cars.** Test day will allow the Stockader's to test run, and add weight to their car. parents are welcome to est and work days and we will have all the supplies required.

**Car due day for the Pinewood Derby will occur a week before the race.** All competing cars must be submitted at this time. Cars will be carefully inspected, measured and weighed to ensure that they meet the rules regarding car construction. Car weight may be adjusted by the owner at registration, scales and a hand drill will be available. Cars which do not pass inspection will not be accepted. The Chairman may, at his discretion, allow cars which fail inspection to be resubmitted after being brought promptly into conformance with the rules. Disputes will be resolved by the Stockade Leadership with the Chairman's decision being final. Cars will be returned at the completion of the race.

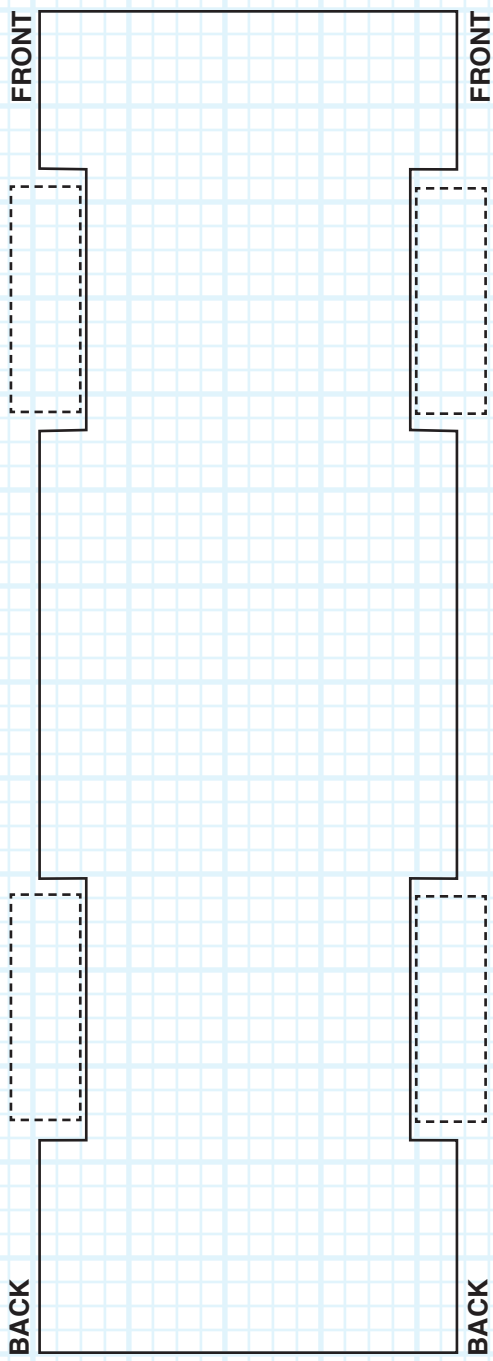
## Remember, this is a "fun" event!

**The boys get to learn how to make a car, play with some paint and enjoy the time planning and making his car. It's important for the boys to learn how to compete but also important for them to have some fun too. In our races the competition really is secondary to the making of the car and race day. We make cars, we race. Some kids win and some not so much. We have some brownies, give out trophies and then plan for next year!**

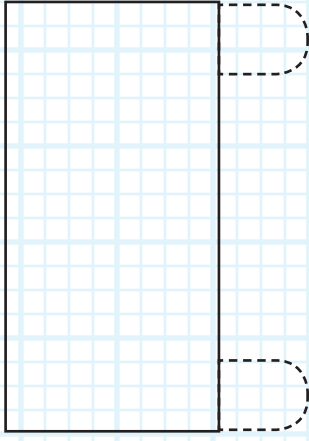
# DERBY CAR TEMPLATE



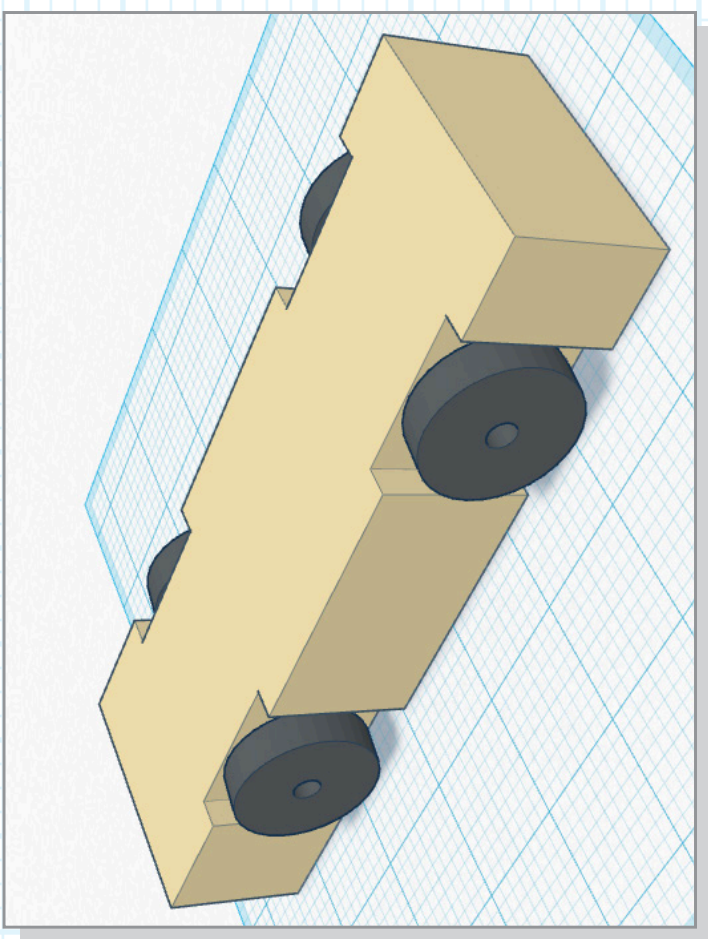
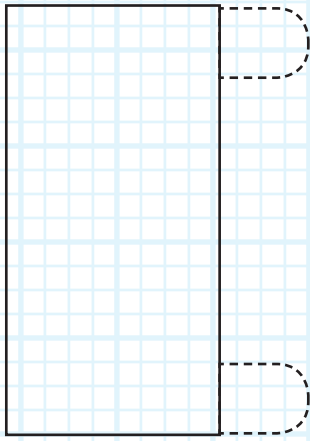
Note: if your car is going to race on the "Loop" it must be trimmed on the red dotted line



FRONT



BACK



Notes: