

Hunstanton Soap Box Derby

17 September 2017

Full rules and specification

Race rules

1. Soapbox karts must meet the Construction and Safety Guidelines as described herein.
2. Participants must pre-register by **9 September. Late entries will not be accepted.**
3. Participants must report to the scrutineering area by 10.30am on 17 September. No karts will be permitted to race without passing scrutineering. Race numbers will be issued by the booking in team. All karts must pass scrutineering before being allocated a race number. All karts must be registered and have passed scrutineering by 11.45am latest. Late arrivals will **not** be able to take part.
4. Racers must be available and ready on race day at the starting location at 12pm and remain available to race at any time until all of his/her races are finished. Participants who are not available when required to race may be eliminated from further competition. A listing of drivers will be posted. The number of runs will be decided on the day.
5. Karts may be inspected prior to each race to ensure they are deemed safe for racing. Ruling by the scrutineers shall not be challenged. Karts rejected by the scrutineers must be removed immediately from the starting location.
6. When racing, drivers must wear shoes and a helmet with chin strap. **No crash helmet - no race.**
7. The race judges' decisions are final and shall not be contested.
8. By virtue of registration, participants, or the parents or guardians of participants who are minors, have agreed to render harmless the Hunstanton Soapbox Derby, the Borough Council of King's Lynn & West Norfolk and volunteers assisting with the event organisers of any consequences arising from participation in the Derby.
9. Adults with junior drivers must stay with their children at all times during the event.
10. Competitors must follow the precise instruction of the race marshals at all times.

Soapbox kart design

The design of the karts is up to the builders. Remember that the judges will be looking for style and originality. Builders should keep in mind that the Soapbox should be built with the intended driver in mind.

Soapbox kart construction and safety guidelines

1. Soapbox karts are powered by gravity only – **no engines or motors.**
2. Each kart can have one or two drivers.
3. The driver must sit in the kart, facing forward and control the kart using only hands and feet.
4. The kart must fit the driver. Drivers must be able to get in and out of the kart easily and operate steering and braking in the normal seated position without stretching or straining.
5. The centre of gravity, with the driver in place, should be as low as possible without violating the minimum road clearance (8cm) specification (including brake).
6. Kart must have four wheels. **Minimum diameter is 15cm.** Wheels may not be made of wood.
7. Measures must be taken to prevent wheels from departing the kart when in use. Use cotter pins or other positive means to keep the wheels in place.
8. Fasteners used in the steering and brake systems must be prevented from loosening when in use by the use of lock nuts, cotter pins, wire tying or other means.
9. **Maximum** overall kart length, 280cm.
10. **Maximum** wheel base (distance between front & rear axles), 190cm.
11. **Maximum** kart body width, 150cm. **Minimum** kart body width, 50cm.

12. **Maximum** axle length, 140cm.
13. **Minimum** road clearance to any part of the kart, including fasteners, must be 8cms.
14. Minimize front and rear overhang.
15. All basic structure parts must be securely fastened to each other using bolts, screws or other suitable hardware. Plywood and solid wood are permitted structural materials. Particle or strand type board is not permitted for any structural part. The basic structure is defined as the chassis on which the driver sits and to which the axles, steering and brake mechanisms, and body shell are attached. The kart body or shell may form part of the basic structure. It must be made of rigid impact resistant material.
16. Back and forth movement of either front wheel shall be limited to 3cm. Stops must be installed to prevent over-steering. Steering movement must be smooth.
17. The kart must have a braking system capable of slowing the kart to a smooth, short and safe straight line stop without damaging the road surface or making contact with the tyres.
18. Cable links used in steering and brake systems must be secured and not slip under stress.
19. Adjusting hardware such as turnbuckles must be lock-wired in the final adjusting position.
20. **We recommend** that the drivers lower torso, legs and feet are within a body shell. The driver should not be able to contact the road surface or the wheels when seated in the normal operating position in the kart.
21. There shall be no exposed sharp edges or points. Exposed edges that may be contacted by the driver shall be smooth. Protective cushioning material may also be fitted.
22. Build a stiff non-flexing basic structure. Try to keep karts light, but tough and strong. Do not add additional weight.
23. It is recommended to incorporate hand-holds for ease of handling.
24. It is vitally important that the kart can be driven repeatedly without steering and brake adjustments.
25. Test the steering and brake mechanisms for strength, repeatable and smooth operation.
26. Test the whole kart on a sloping surface. Make certain, through testing, that the intended drivers can safely operate the kart.

Please do not arrive at the Soap Box Derby with an untested kart or driver!

Disclaimer to be agreed by participants

I/we understand that by signing this form (ticking this box) I accept full responsibility for my own safety and that of any minors I am with. I/we agree to observe rules of the event and to follow the instructions of the event marshals and scrutineers.

Disclaimer for under-16s to be agreed by parent/guardian

I confirm that my son/daughter is in good health and I give consent for my son/daughter to participate in the above event/activity.

I consent to any emergency treatment required by my son/daughter during the course of the event/activity. I give consent for my son/daughter to be photographed during the course of the above event/activity and I consent to the photographs being used by the Borough Council of King's Lynn & West Norfolk for promotional purposes.

The information you provide will be used in accordance with the Data Protection Act 1998, to ensure the safety of all participants and may be shared with other people/organisations involved in the delivery of the above event/activity, if appropriate. By signing this form (ticking this box) you are consenting to the Council using the information, which you have supplied in the manner stated above.

Borough Council of King's Lynn & West Norfolk Disclaimer

Borough Council of King's Lynn & West Norfolk and the event providers/suppliers do not accept any responsibility for any accident, damage or loss to entrants or their property during the running of this event.