

# **GSHNJ SU93 Powder Puff Derby 2024**

## **Rules and Regulations**

*Honest and Fair: The first promise of the Girl Scout Law.*

All entrants must play fair and behave with integrity. Any entrant who is cheating, disparaging other entrants, being rude, or in any way being disruptive may be disqualified and removed from the event.

### **2024 THEME**

- Under the Sea

### **DERBY CAR DIMENSION RULES**

- The overall length of the car shall not exceed 7 inches.
- The overall width of the car shall not exceed 2.75 inches.
- The car must have 1.75 inches of clearance between the wheels.
- The car must have a minimum wheelbase of 4 inches.
- The car must have 3/8 (0.375) inches of clearance underneath the body so it does not rub on the track.
- The maximum height of the car, including accessories, shall not exceed 3.5 inches.
- The weight of the car and all accessories together shall not exceed 5.0 ounces.
- The official race scale that is used at car check-in shall be considered final.

### **ATTRIBUTES**

- The car must have been made during the current year (the year in which derby is being held). You may not use a car from a previous derby. Derby Car kits may be purchased online or in stores.
- Wheel bearings, washers, and bushings are prohibited.
- Only dry graphite/molly lubricants may be used for lubrications. No liquid lubricants, waxes, polish, soap, or other lubricants are permitted. The axles, axle holes, and where the wheel contacts the body of the car are the only points where lubricants may be applied.
- Cars must be powered by gravity only! This means no engines, rubber bands, windup motors, fans, springs, rocket motors, CO<sub>2</sub> cartridges, thermonuclear reactors, plasma boosters, rodents on hamster wheels, or any other thrust generation or enhancement devices.

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## **DURING THE RACE**

- Each car must pass inspection by the official Inspection Committee before it will be allowed to compete.
- The Inspection Committee has the responsibility to disqualify those cars that do not meet these rules.
- Once a car passes inspection and is entered into the race, only race committee members can touch it.
- All four wheels of your car must be on the track.
- If the car loses a wheel, or is otherwise damaged, the racer shall have five minutes to make repairs.
- Times will be recorded by our derby expert. The scores will be calculated using software. Finish times are final. Girls will be in competition based on their level in Girl Scouts, so there will be awards for Daisy, Brownie, Junior, Cadette, and Senior.

## **ACCESSORIES AND ACCOUTREMENTS**

- The theme is Under the Sea. Awards will be given for Best Theme Car, Most Girl Scout Car, and Most Innovative Design. You are encouraged to cut and decorate your car to be as awesome as possible.
- Other materials such as wood, plastic, or metal may be added to the original block of wood from the official kit as long as the car is within the allowed specifications as noted above.
- Projectiles are not allowed. No part of the car may intentionally detach from the car during the race, come into contact with any other car, or extend outside the allowed dimensions at any time.
- Movable or liquid weights that shift the center of gravity of the car when the car is tipped or rolled are prohibited.
- Electronics are allowed as long as they do not provide any propulsion. Examples of acceptable electronics include LEDs, phototransistors, microprocessors, batteries, electromagnetic coils, transistors, relays, and transmitters to cause lights or effects. You may use electronics to make your car look cool. However, you may not use the electronics to create any kind of propulsion or inertial force.