

CO2 Race Car

Use this sheet to calculate the weight of your CO2 Race Car to make it very competitive.
Refer to the Step by Step Procedure sheet when to use this sheet.

$$\text{Step 5} \underline{\hspace{2cm}} \text{g} \times \text{Step 13} \underline{\hspace{2cm}} \text{g} \div \text{Step 12} \underline{\hspace{2cm}} \text{g} = \text{Step 14} \underline{\hspace{2cm}} \text{g}$$

SBC

Styrofoam Before Cutting
Weigh your styrofoam before you cut out the shape of your car.

*WAC

Wood After Cutting
This is what your car will weigh after you cut it to shape and sand it. This must be calculated by completing the information below before selecting your wood (WBC).

SAC

Styrofoam After Cutting
Weigh your styrofoam after you cut out the shape and sanded it to shape.

WBC

Wood Before Cutting
Select a blank of wood in bass or balsa approximately this weight to trace your patterns to it. Your car should weigh **WAC** after you cut it to shape and sand it.

- Weigh your 2 Front wheels
- Weigh your 2 Back wheels
- Weigh 2 axles - plastic, aluminum, or metal
- 4 Spacers/2 eye hooks/2 straws

Paint & bodyfiller will add about 3 grams, depending how much is applied to the car.

***WAC**, This, plus the others above should = 45 g

Total of painted car ready to race

The ideal weight for your car to be very competitive is 45-50 grams.
It can weigh up to 170 g and still be legal, but it will be very slow.

+	_____	g	}	= _____
+	_____	g		
+	_____	g		
+	_____	g		
+	1.3	g		
+	3.0	g		
+	_____	g	+ _____	
=	45.0	g	= 45.0	