



# Welcome to the Wonderful World of



## CO2 Cars

### Introduction:

Imagine that you are in charge of researching, designing, and building a state of the art CO2 dragster car. Oh wait you are!! If you were given the materials to start this project today, without reading any further, it would be very difficult. This web quest is designed to focus on the fundamentals of CO2 cars. You will also be looking at different designs and types. As you know, this is a competition project where the best car wins!! Let the games begin!

### Task:

In this activity you will be visiting and investigating web sites that will give you an insight on CO2 cars. When you are finished with this web quest you will be able to:

- Identify what a CO2 car is
- Explain the different types of cars
- Relate to terms used in classroom discussion
- Understand the different steps in the construction of a CO2 car
- Design a competitive CO2 car based on your findings and research

### Resources:

Below are web sites that can be useful to look at car types, construction, terms, and possible design ideas. Take your time and explore the different sites to better familiarize yourself with CO2 cars.

First for some background info:

<http://filebox.vt.edu/users/sfagg/teched/pdf/dragster.pdf>

How are they built? At this site use the forward arrow and navigate through the steps of constructing a CO2 car.

<http://www.science-of-speed.com/building.asp?id=33>

## Glossary

<http://www.science-of-speed.com/glossary.asp?id=147>

## Showroom

<http://skyview.billings.k12.mt.us/departments/teched/images/Co2%20web%20page/Co2%20web%20page.html>

<http://web.westbloomfield.k12.mi.us/abbott/staff/maike/co2info.html>

## Electronic Worksheets

CO2 Car Types <http://www.educatingwithtechnology.com/T3mrengland.htm>

CO2 Car Design <http://www.educatingwithtechnology.com/T3mrengland.htm>

## Procedures:

1. Start out by doing some investigative work. Look at the first two sites to get an idea of how the whole process will work. Knowing what to do when the time comes will make the whole project easier to understand.
2. Take a look at the glossary section and familiarize yourself with some of the terms that will be used in class.
3. When you think you have it down, complete the CO2 Car Types electronic worksheet. To do this you will:
  - a. Open the document.
  - b. Type in your name and period at the top of the paper.
  - c. Use the arrow to drag the appropriate name under each car design.
  - d. When you are finished DO NOT SAVE YOUR WORK, instead print the document out and hand it in at the end of the period.
4. After looking at the possible designs for your car (if you need to go back and look at them again, please do) complete the CO2 Car Design electronic worksheet. To do this you will:
  - a. Open the document.
  - b. Type your name and period at the top and print it off.
  - c. Once you have it printed off, you must sketch out three (3) possible design for your car. REMEMBER NOT TO DRAW THROUGH THE CO2 OPENING!
  - d. If you do not finish the worksheets in class, they will be homework that will be turned in tomorrow.

## Conclusion:

Hopefully after looking at the web sites you have gained a better understanding of CO2 cars. This activity will be a reference for your CO2 car project.