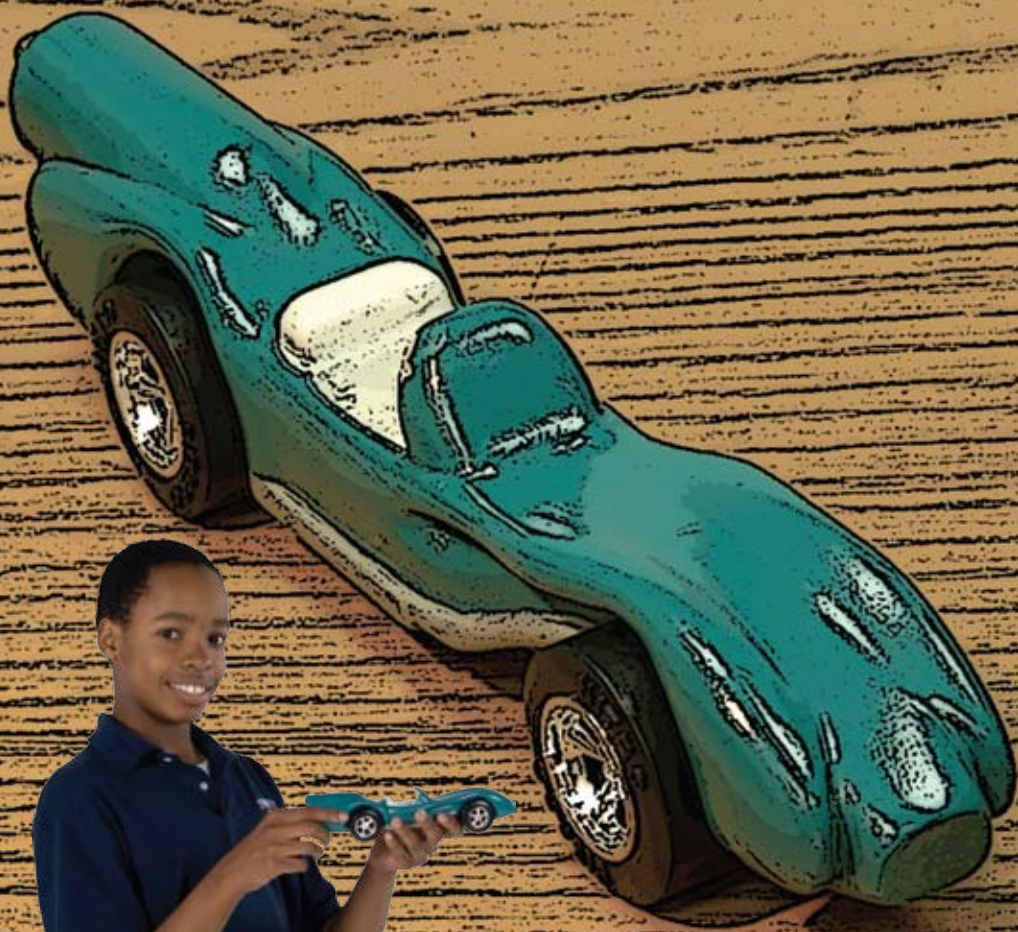


# The Race Car Book

Every step of the dragster  
design and construction process.



**PITSCO**  
EDUCATION

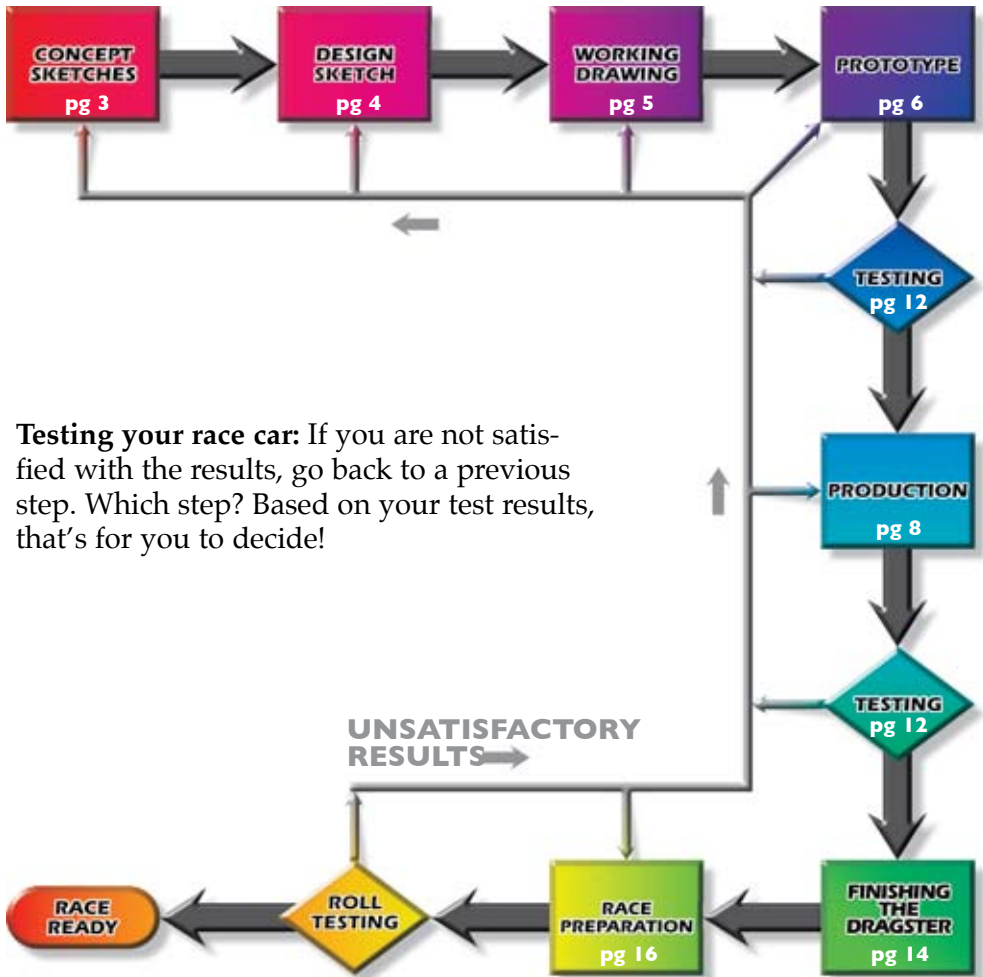
# Design, Build, and Race Your Own Dragster!

Picture this: *Your dragster, a sleek form exquisitely crafted by your own hands, blazes down the track toward victory. As you watch in smug satisfaction, you know that your innovative design has given your car the edge.*

This vision can be a reality – if you carefully follow instructions, take pride in your work, and are creative. Remember, this project is to help you *learn* about the design process and to *have fun!*

The flowchart below outlines the process you'll be using to create your dragster. This process is similar to that used by professional car designers.

## DESIGN PROCESS FLOWCHART



**Testing your race car:** If you are not satisfied with the results, go back to a previous step. Which step? Based on your test results, that's for you to decide!

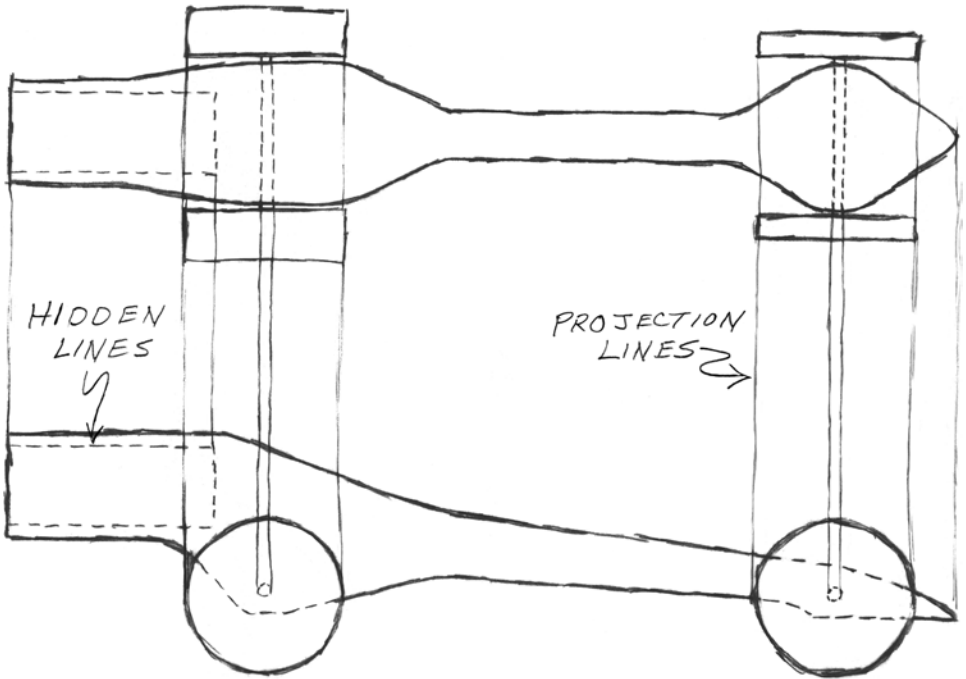




## Design Sketch

On a clean sheet of paper, sketch your favorite idea from the concept sketches to a larger scale with more detail. Draw the top and side view.

Make light projection lines from one view to the other to help you locate axle holes and other features of your design. Show the location of hidden details (like the cartridge hole) by using hidden (dashed) lines.



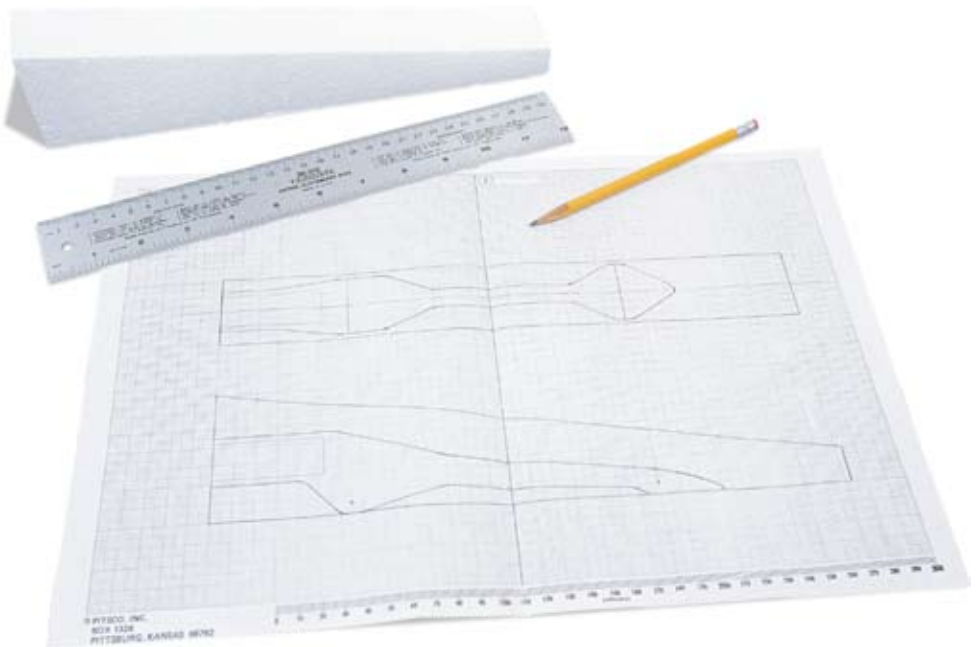
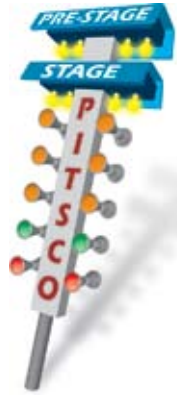
## Working Drawing

Measure your dragster blank and draw (to full scale) its top and profile (side) outline on the grid paper. Then measure the depth and location of the power plant hole and draw its outline on both views. Next, draw the top and side view contours of your design within the outlines of the blank.

As you make your drawing, refer to the specifications sheet. You don't want your dragster to be longer or shorter than allowed. There are many other specs to follow as well, so you should check your design repeatedly against the spec sheet as you do your drawing. When you are sure your design is within specs, move on to the prototype process.

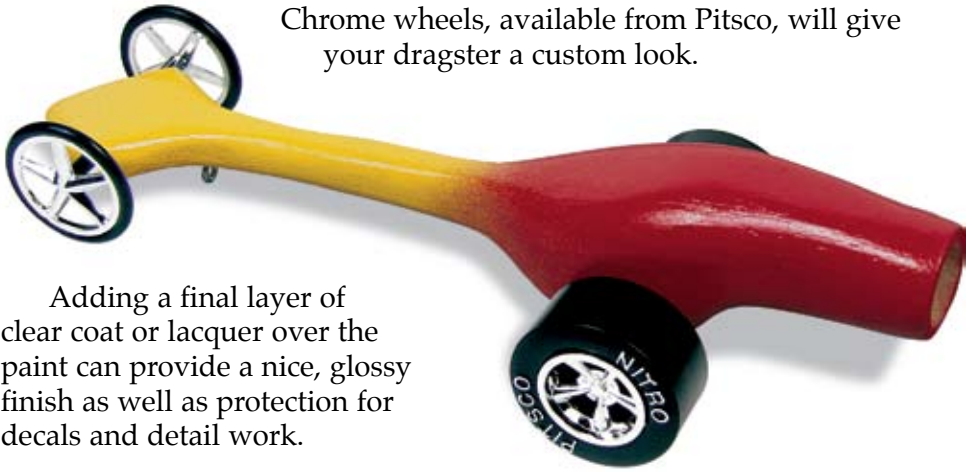
Make two or three copies of your drawing. This will allow you to make templates for your prototype and your production dragster and have an extra drawing to turn in to the teacher if necessary.

**Hint:** *If you decide to change your dragster design during prototyping, you'll need to repeat the working drawing.*



## Finishing Ideas

Chrome wheels, available from Pitsco, will give your dragster a custom look.



Adding a final layer of clear coat or lacquer over the paint can provide a nice, glossy finish as well as protection for decals and detail work.

*Caution: Clear coat is not compatible with some types of paint. Carefully read the label before using.*

