

# CO2 CAR DESIGN

Name: \_\_\_\_\_

**/20**  
Total Mark

Block: \_\_\_\_\_

	0 to 2	3 to 4	5
Design Drawings	Plagiarized/Minimal design involved. Drawing's lack effort or incomplete.	Drawn in 2 Point perspective. Drawn neatly. Explores more than one style.	Drawn in 2 Point perspective. Drawn neatly and carefully. Good use of line technique and shading. Explores different styles.
Orthographic Drawing	Some views not represented. Does not match car. Layout of critical information is missing.	Top and Side view represented. Some measurements noted. Resembles car.	Top and Side view represented. Includes correct measurement and layout of holes. Same as car or changes are noted.
Final Drawing	Perspective poorly represented. Messy line technique and application of color.	Drawn neatly and carefully. Good use of line technique and coloring.	Drawn in 2 Point perspective. Drawn neatly and carefully. Good use of line technique and coloring.

	0 to 5	6 to 8	9 to 10
CO2 Car Design (Prototype)	Design reveals a lack of understanding of: <ul style="list-style-type: none"> <li>• Mass</li> <li>• Aerodynamics</li> <li>• Material science</li> <li>• Aesthetics</li> </ul>	Design demonstrates some understanding of: <ul style="list-style-type: none"> <li>• Mass</li> <li>• Aerodynamics</li> <li>• Material science</li> <li>• Aesthetics</li> </ul>	Design expresses a focused understanding of: <ul style="list-style-type: none"> <li>• Mass</li> <li>• Aerodynamics</li> <li>• Material science</li> <li>• Aesthetics</li> </ul>
CO2 Car Construction	Drill Press <ul style="list-style-type: none"> <li>• Not on center</li> <li>• Not square to block</li> <li>• Noticeable tearing/chip out</li> </ul> Band Saw <ul style="list-style-type: none"> <li>• Some cut marks</li> <li>• Car not symmetrical</li> </ul> Sanding & Filing <ul style="list-style-type: none"> <li>• Car does not match original design in shape</li> <li>• Consistent finish not able to be achieved</li> </ul>	Drill Press <ul style="list-style-type: none"> <li>• Drilled almost @ center</li> <li>• Fairly square to block</li> <li>• Min. tearing/chip out</li> </ul> Band Saw <ul style="list-style-type: none"> <li>• No cut marks or burns</li> <li>• CO2 car is close to symmetrical</li> </ul> Sanding & Filing <ul style="list-style-type: none"> <li>• Car matches original design in shape</li> <li>• Mostly consistent finish achieved</li> </ul>	Drill Press <ul style="list-style-type: none"> <li>• Drilled on center</li> <li>• Square to block</li> <li>• No tearing/chip out</li> </ul> Band Saw <ul style="list-style-type: none"> <li>• No cut marks or burns</li> <li>• CO2 car is symmetrical</li> </ul> Sanding & Filing <ul style="list-style-type: none"> <li>• Car matches original design in shape</li> <li>• Consistent finish achieved</li> </ul>
	0 to 2	3 to 4	5
CO2 Car Finish	Poor application of paint (drips, wrinkling or blotchy spots.) Simple paint design applied.	Good application of paint (no noticeable drips, wrinkling or blotchy spots.) Simple paint design applied flawlessly.	Perfect application of paint (no drips, wrinkling or blotchy spots.) Complex design applied flawlessly.