

Name(s): _____ Date _____ Per. _____

Part 3: Engineering the Bumper Checklist Rubric

<i>Element</i>	<i>Description</i>	<i>Points Possible</i>	<i>Your Score</i>
Engineering Design Process	Slide 1: Define the Problem <ul style="list-style-type: none"> Problem is clearly stated Criteria and Constraints are listed 	2	
	Slide 2: Brainstorm <ul style="list-style-type: none"> Drawings or photos of the brainstorming process are present. 	2	
	Slide 3: Research <ul style="list-style-type: none"> Images or links (with brief summary) of research are provided 	2	
	Slide 4: Develop Ideas <ul style="list-style-type: none"> Slide has images of sketches or digital drawings documenting ideas. Sketches/drawings are clearly labeled Slide contains at least 2 ideas 	2	
	Slide 5: Choose the Best Idea <ul style="list-style-type: none"> Slide has images of sketches or digital drawings documenting the best idea. Sketches/drawings are clearly labeled. 	2	
	Slide 6: Model or Prototype <ul style="list-style-type: none"> Slide contains images taken during the building process, documenting each step. 	2	
	Slide 7: Test and Evaluate <ul style="list-style-type: none"> Data from multiple trials is clearly documented and recorded A clear explanation of the changes that need to be made are present. 	2	
	Slide 8: Improve Design <ul style="list-style-type: none"> Slide includes a picture of each improvement made A brief explanation was provided for the cause and effect relationship of the modification made to the improvement to the design. 	4	
	Slide 9: Present Solution <ul style="list-style-type: none"> Slide contains an image of final design Slide includes a description of how your car performed compared to the others and why 	2	
	TOTAL	20	

