



tcea 3D Design

STUDENT CONTEST

Design Name: _____

Judge Name: _____

5 = Exemplary demonstration of criterion: high level of quality, insight, depth, precision, accuracy, originality, and mature evidence of the criterion.	4 = Accomplished demonstration of criterion: effective, detailed, and consistent evidence of the criterion.	3 = Basic demonstration of criterion: needs additional work, clarification, and/or evidence of the criterion; needs revisions.	2 = Minimal demonstration of criterion: significant portion of criterion missing, significant revisions required.	1 = Unsatisfactory demonstration of criterion: item incomplete or incorrect, major revisions required.
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	Possible Points	Points
Engineering Notebook		
3D Concept		
Originality of 3D design concept (or improvement on existing product)	5	
Define the problem	5	
Identify solution(s)	5	
Design impact on community and/or state (significance)	5	
Document 3D design progression with sketches or images	5	
Resources used for research documented	5	
Obstacles encountered and conquered	5	
Meetings documented	5	
Identify decisions made based on test data	5	
3D Design		
Mechanical design (Does the design make sense?)	5	
Functionality (Does the design work?)	5	
Feasibility (Is the product practical and easily produced?)	5	
Sustainability (Would the product last over time, reusable?)	5	
Simplicity of design	5	
Marketing Plan Presentation		
Time limit honored (one minute or less): Yes=5, No=0	0/5	
Creativity (Is the presentation engaging, catchy, and/or fun?)	5	
Problem stated	5	
Solution stated	5	
Explanation of invention	5	
Marketing plan for invention (Stated within the presentation)	5	
Judges Comments:	Total (max 100)	0