

Name _____

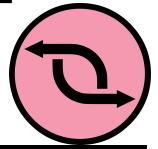
Site _____

Name _____

Name _____

Reverse Engineering

AVUHSD STEM Expo
Judging Evaluation Form



General Requirements Evaluation*

Presentation Display		Log Notebook	
Attractive, easy to read, and layout is in appropriate logical order	ND 1 – 2 – 3 – 4 – 5	Format: Log notebook is made of sturdy materials, numbered pages, and all entries dated and written legibly in ink.	ND 1 – 2 – 3 – 4 – 5
	ND 1 – 2 – 3 – 4 – 5	Evidence of Planning: background research, show process of development, description of problems and solutions, research notes	ND 1 – 2 – 3 – 4 – 5
Shows project in appropriate detail for understanding by audience	ND 1 – 2 – 3 – 4 – 5	The deconstruction sequence description (including tools used) is complete and accurate.	ND 1 – 2 – 3 – 4 – 5
Student Presentation			
Professionalism / Delivery	ND 1 – 2 – 3 – 4 – 5		
Content Knowledge / Organization	ND 1 – 2 – 3 – 4 – 5		
Shows project in appropriate detail for understanding by audience	ND 1 – 2 – 3 – 4 – 5		

Reverse Engineering Category Evaluation**

Display		Other Considerations specific to this category	
Operation of original (assembled) unit is explained adequately	ND 1 – 2 – 3 – 4 – 5	Product selected has appropriate complexity or materials used in the construction.	ND 1 – 2 – 3 – 4 – 5
All disassembled components have been labeled and described accurately	ND 1 – 2 – 3 – 4 – 5		
Function of each part is identified and correct	ND 1 – 2 – 3 – 4 – 5	Disassembly of this product will help the audience understand an unfamiliar operational concept.	ND 1 – 2 – 3 – 4 – 5
Components are presented appropriately to accurately show their location within the completed unit.	ND 1 – 2 – 3 – 4 – 5	Product has been disassembled to accurately represent all components.	ND 1 – 2 – 3 – 4 – 5
The material of composition is identified for each component	ND 1 – 2 – 3 – 4 – 5	Product has been disassembled to accurately represent all component	ND 1 – 2 – 3 – 4 – 5
Descriptive Document (if present)		Project shows that the student grasps the purpose of the components and sub-assemblies, and how they work together.	ND 1 – 2 – 3 – 4 – 5
Images or illustrations of components and how they fit together are presented and appropriate.	ND 1 – 2 – 3 – 4 – 5		
Each sub-assembly is defined and its operation explained.	ND 1 – 2 – 3 – 4 – 5		
The deconstruction sequence description is complete and accurate.	ND 1 – 2 – 3 – 4 – 5		
Tools used are listed and their use is defined within the sequential listing.	ND 1 – 2 – 3 – 4 – 5		
How the original unit operates based on the disassembled components works is described completely and accurately	ND 1 – 2 – 3 – 4 – 5		

Additional Notes and Comments on back

Additional Items for Consideration

Safety Considerations	
Team/External Considerations	
Artistry	

ND: Not Demonstrated, 1: Beginning, 2: Developing, 3: Average, 4: Accomplished, 5: Advanced

(*See General Entry Rules and Requirements for further information, ** See Category Description for further information)