Rubric created by Kurt Lichtenwald and John Barry, Gloucester High School

Inspired By: Mark Miller, Gloucester High School
S.T.E.A.M. (Science, Technology, Engineering, Arts and Mathematics)

Project is elegant, and a complete system. All components work well together. All components are professionally incorporated. Excellent (20 -15 points) The student developed a product together are	Project is a complete system. All components work together. All components look like they belong together and are incorporated. Good (14-10 points) The student developed a product for their own use aesthetically	Project is nearly a complete system, but is missing some critical design components. Most components work well together. Fair (9-6 points) The student made a valid attempt to the finishing	Project is <u>not</u> a <u>complete</u> system and lacks many critical design components. Some components work well together. Undeveloped (5-3 points) The student gave	Project was not finished or no project was presented for evaluation. Non-Compliance (2-0 points) The student gave	Grade Received Grade Received Grade Received
elegant, and a complete system. All components work well together. All components are professionally incorporated. Excellent (20 - 15 points) The student developed a product resthetically worthy of sale its niche	complete system. All components work together. All components look like they belong together and are incorporated. Good (14-10 points) The student developed a product for their own use	complete system, but is missing some critical design components. Most components work well together. Fair (9-6 points) The student made a valid attempt to	complete system and lacks many critical design components. Some components work well together. Undeveloped (5-3 points) The student gave	finished or no project was presented for evaluation. Non-Compliance (2-0 points)	<u>Received</u>
(20 -15 points) The student developed a product desthetically worthy of sale its niche	The student developed a product for their own use	(9-6 points) The student made a valid attempt to	(5-3 points) The student gave	(2-0 points)	
	pleasing for themselves and not for sale in its niche market place.	process of the product.	little attention to the finishing process of the product but had minimum success.	little to no attention to the finishing process of the product.	
Excellent (10-8 points) Student is able to identify and given an Indepth explanation of the EDP in relation to their project. Student relies on their bwn memory skills to complete this task.	Good (7-5 points) Student is able to identify and given an adequate explanation of the EDP in relation to their project. Student relies on their own memory skills to complete this task.	Fair (4-3 points) Student is able to identify and given a fair explanation (with minimal prompting) of the EDP in relation to their project. Student relies mostly on their own memory skills to complete this task.	Undeveloped (2-1 points) Student needs extensive prompting from teacher and / or they need an EDP cycle worksheet to complete this task.	Non-Compliance (0 points) Student lacked interest in demonstrating knowledge of EDP cycle and / or project.	<u>Grade</u> <u>Received</u>
demonstrated excellent time- nanagement hroughout the	Good (7-5 points) Student gathered most materials and began production in a timely manner. Consistently demonstrated timemanagement throughout the project to meet due dates.	Fair (4-3 points) Student gathered most materials and began production in a timely manner. Inconsistently demonstrated time-management throughout the project to meet due dates.	Undeveloped (2-1 points) Student did not gather needed materials to perform work. Was unable to adequately meet timeline due to inability.	Non-Compliance (0 points) Student refused to qather materials required to complete the project. Student showed no interest in completing project on time.	Grade Received
State of the control	itudent is able of identify and given an indepth splanation of e EDP in lation to their oject. Student siles on their ommemory iills to implete this sk. Excellent 10-8 points) and identify manner. It is and identify manner. It is and identify manner. It is an independent in a mely manner. It is an independent implement in a mely manner. It is an independent implement implement in a mely manner. It is an independent in a mention in a mely manner. It is an independent in a mention in a mention in a mely manner. It is an independent in a mention in a mely manner. It is an independent in a mention in a mely manner. It is an independent in a mention i	Excellent 10-8 points) Student is able to identify and given an adequate explanation of e EDP in lation to their oject. Student elies on their own memory sills to smplete this sk. 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Application of Safety Practices	Excellent (10-8 points) Student followed all safety rules and always demonstrated proper tool usage.	Good (7-5 points) Student followed all safety rules and demonstrated proper tool usage most of the time.	Fair (4-3 points) Student followed most of the safety rules and always demonstrated proper tool usage.	Undeveloped (2-1 points) Student followed most of the safety rules and inconsistently demonstrated proper tool usage.	Non-Compliance (0 points) Student did not followed safety rules, nor demonstrated proper tool usage.	<u>Grade</u> Received
Component Placement Design	Excellent (10-8 points) The project demonstrates well-thought out design for access to all of its components to allow for modifications and repairs.	Good (7-5 points) The project allows access to most of its components, thus allowing for some modifications and repairs.	Fair (4-3 points) The project allows access to some of its components, thus allowing for minimal modifications and repairs.	Undeveloped (2-1 points) The project does not allow access to its components for modifications and repairs.	Non-Compliance (0 points) Project was not finished or no project was presented for evaluation.	<u>Grade</u> <u>Received</u>
Homemade vs. Store - Bought build	Excellent (10-8 points) The student alters an existing products function into a new desired function, cross- application of an existing product, and fabrication; or a new product.	Good (7-5 points) The student applied both fabricated and prefabricated materials that served the desired purpose.	Fair (4-3 points) The student demonstrated knowledge of course material and used a majority of prefabricated materials.	Undeveloped (2-1 points) Materials were not suitable for desired outcome.	Non-Compliance (0 points) Project was not finished or no project was presented for evaluation.	<u>Grade</u> <u>Received</u>
Material Choice	Excellent (10-8 points) Recycled material and material that will last a minimum of 5 years of heavy use.	Good (7-5 points) Recycled material and material will likely last less than 5 years of heavy use.	Fair (4-3 points) Recycled material and material will likely last less than 5 years of sporadic use.	Undeveloped (2-1 points) Recycled material and material will likely last less than 5 years of minimal use.	Non-Compliance (0 points) No material was gathered.	<u>Grade</u> <u>Received</u>
Above and Beyond Points Extra Credit - Bonus	Excellent (10-8 points) Student exceeds rubric requirement for project and helps others with the development of peer's projects.	Good (7-5 points) Student does more than the required rubric for project.	Fair (4-3 points) Student attempted to do more than the required project.	<u>Undeveloped</u> N/A	N/A	<u>Grade</u> <u>Received</u>

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