Name:		Date:		
Engineering Design Process Rubric				
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Engineering Design Process Rubric	The engineer fully restated the question in their own words and it's related to the problem.	The engineer fully stated the question and it's related to the problem.	The engineer partially stated the question and it's related to the problem.	The engineer didn't state the question, or their question is not related to the problem.
Imagine	The engineer's solution to the problem demonstrates a higher level of thinking through detailed descriptions.	The engineer's solution is related to the problem.	The engineer's solution is somewhat related to the problem.	The engineer's solution is not related to the problem.
Plan	The engineer creates a detailed plan with: multiple parts labeled in detail in their diagram, correct number of materials listed, and clearly defined steps to complete the design.	The engineer creates a plan with: a labeled diagram, number of materials listed, and steps to complete the design.	The engineer creates a partial plan with missing parts to: their labeled diagram, materials list, or steps to complete the design.	The engineer is completely missing one or all of the parts of: their diagram, materials list, or steps to complete the design
Create	The engineer follows every step of their plan to help them create their design. Taking notes of what is and isn't working for them. They stay on task, using the tools and materials responsibly while following the safety guidelines.	The engineer uses their plan to help them create their design. They stay on task, using the tools and materials responsibly while following the safety guidelines.	The engineer uses only part of their plan. AND/OR They receive one redirection to stay on task, use the tools and materials responsibly or follow the safety guidelines.	The engineer doesn't use their plan. AND/OR The receive more than one redirection to stay on task, use the tools and materials responsibly or follow the safety guidelines.
Test	The engineer test their design using the criteria. They record any problems or improvements they could make based on the criteria of their design. They are also observant of others' designs so they can use those ideas in their improvement process.	The engineer tests their design using the criteria. They record any problems or improvements they could make to their design.	The engineer tests their design, but it is not based on the criteria. AND/OR They record only one problem or improvement they could make to their design.	The engineer doesn't test their design. AND/OR They don't record any problems or improvements they could make to their design.
Improve	The engineer makes multiple meaningful improvements to their design base on their test results and the criteria of the challenge. They also possibly incorporate strong aspects of other designs they saw during the tests.	The engineer makes one meaningful improvement to their design based on the on their test results and the criteria of the challenge.	The engineer makes an improvement to their design, but it isn't based on their test results. AND/OR It isn't base on the criteria of the challenge.	The Engineer doesn't make an improvement to their design. AND/OR They make a cosmetic change rather than a structural improvement.