

Scholar Name:

HCA STEAM 212°© Rubric\*

Key for Color Codes by Trimester: **Marking Period 1** **Marking Period 2** **Marking Period 3**

CATEGORY	Engineer in Training	Beginning Engineer	Resident Engineer	Engineering Innovator
<b>Engineering Design Process</b>	The scholar can demonstrate that he/she understands 1-2 of the 5 steps of the Engineering Design Process.	The scholar can demonstrate that he/she understands 3 or more of the 5 steps of the Engineering Design Process.	The scholar can demonstrate that he/she understands almost every step of the Engineering Design Process.	The scholar can demonstrate that he/she understands all the steps of the Engineering Design Process.
<b>Collaboration</b>	The scholar does not effectively listen to other team members, does not show respect for varying opinions, and does not effectively communicate ideas and opinions, or engage in compromise.	The scholar does not always effectively listen to team members or show respect for varying opinions. The scholar does not always communicate ideas and opinions, or engage in compromise.	The scholar generally listens to team members, respects varying opinions, communicates ideas and opinions effectively, as well as engages in compromise.	The scholar consistently listens to all team members, respects varying opinions, communicates ideas and opinions effectively, as well as engages in compromise.
<b>Communication</b>	Launch Log is less than 50% complete. Information is not accurate and/or incomplete.	Launch Log is 50% complete. More than half of the information is not accurate or incomplete.	Launch Log is 80% complete. Some of the information is not accurate or incomplete.	Launch Log (Engineering Notebook) is complete and includes all required information, as well as sketches and descriptions.
<b>Critical Thinking</b>	The scholar does not try to solve problems or help others solve problems. Depends on others to do the work.	The scholar does not suggest or refine solutions, but is willing to try out solutions suggested by others.	The scholar refines solutions suggested by others.	The scholar actively looks for and suggests solutions to problems.
<b>Creativity</b>	The scholar creates a solution that has a vague or incomplete connection to the task. Solution is not considered to be useful or unique and is not considered to be creative. (May simply replicate an existing solution.)	The scholar uses ideas to create solutions that are directly related to the challenge or problem. Solution to the design challenge is considered to be somewhat valuable and unique and is considered to be somewhat creative.	The scholar uses ideas to create solutions that are directly related to the challenge or problem. Solution to the design challenge is considered to be valuable and unique, and is considered by experts to be creative.	The scholar develops creative ideas into tangible solutions or contributions. Demonstrates a high degree of adaptability in the production of creative solutions to design challenges (e.g., making do with what is at hand to reach goals.)