# Engineering Design Challenge Rubric

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Expert** | **Advanced** | **Emerging** | **Not Evident** |
| **Engineering Design Process** | **Prototype was completed on time, according to the constraints, and was tested successfully. Prototype can be replicated.** | **Prototype was completed on time, but does not follow the constraints, and was tested successfully. Prototype can be replicated.** | **Prototype was not completed on time and did not follow the constraints, but was tested successfully. Prototype needed additional explanation to be replicated.** | **Prototype was not completed on time, did not follow the constraints, but has been tested. Prototype could not be replicated.** |
| **Testing Data** | **Data table included accurate data for all of the following:** **-Color formulation****-pH****-results with indicator** | **Data table included accurate data for 2 of the following:** **-Color formulation****-pH****-results with indicator** | **Data table included accurate data for 1 of the following:** **-Color formulation****-pH****-results with indicator** | **Data table did not include accurate data for any of the following:** **-Color -formulation****-pH****-results with indicator** |
| **Math Calculations** | **Included accurate proportional reasoning for scaling dye volume to given area. Process included.** | **Included accurate proportional reasoning for scaling dye volume to given area. Process was not included.** | **Included flawed/inaccurate proportional reasoning for scaling dye volume to given area. Process included.** | **Included flawed/ inaccurate proportional reasoning for scaling dye volume to given area. No process included.** |