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|  | 1 | 2 | 3 | 4 |
| **Pride in work** | Journal is sloppy and incomplete. | Journal is sloppy and lacks in creative and critical thinking but is complete. | Journal is neat and complete but lacks evidence of critical and creative thinking. | Journal is neat, complete and shows high levels of critical and creative thinking. |
| **Technical understanding of the project** | Student/Group does not explain the background ideas and technical information behind the project. | Student/Group struggles to explain the background ideas and technical information that they used to carry out the project. | It is clear that the student/group understands the theories, ideas and technical information related to this project (ex: Solar energy matters to engineers because…and this project will help me as an engineer because…One of the articles I read about solar energy said…) | There was significant work done outside of class to fully and deeply understand the theories, ideas and technical information related to this project. (ex: In addition to my reading in class, I watched a documentary about solar energy at home. I saw how inventors are already creating solar powered cars but one of the problems with this is…) Student skillfully uses the language of the discipline in his/her writing. |
| **Questioning (creative thinking)** | Student does not have questions about their own work and how it applies to the discipline. No creativity or unique spin was added to the project. | Student asks questions about their own work and how it applies to the discipline. No creativity or unique spin was added to the project. | Student asks questions about their own work and how it applies to the discipline. He/she added something unique to their project (not directly from teacher or kit instructions). | Students ask questions about their own work and how it applies to the discipline. He/she added something unique to their project (not directly from teacher or kit instructions) and they can make connections to what they have learned from this project and what they might do for a final student-designed project. |