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| --- | --- | --- | --- | --- |
|  | **Exemplary (10)** | **Meets Expectations (8)** | **Needs Improvement (6)** | **N/A\*** |
| **Communication** | * Compose reports, research papers or journal articles that are complete, well-written, formatted appropriately and include appropriate citations.
* Expresses ideas in an organized, clear and concise manner.
 | * Compose reports, research papers, or journal articles that may have minor errors in completeness, format, grammar or citation errors.
* Expresses ideas that are mostly in an organized, clear and concise manner.
 | * Composes reports, research papers or journal articles that are incomplete, poorly formatted, written or missing citations.
* Does not express ideas in an organized, clear and concise manner.
 |  |
| **Teamwork** | * Contributes to team meetings promoting the merits of alternative methods to advance the research.
* Engages with team members to assist in other aspects of the project to move the research forward
 | * Contributes to team meetings by offering alternative solutions to advance the work of the team.
* Engages most of the time with other team members to assist in other aspects of the project to move the research forward.
 | * Does not contribute to team meetings.
* Does not engage with other team members on any aspects of the project to assist in moving it forward.
 |  |
| **Critical Thinking and Problem Solving** | * Identifies multiple approaches for solving issues or problems that arise during the research process.
 | * Identifies a single approach for solving issues or problems that arise during the research process.
 | * Does not identify any approaches for solving issues or problems that arise during the research process.
 |  |
| **Data Presentation** | * Data is appropriately reported and displayed so that relevant findings are obvious.
* The data analysis technique(s) are appropriate for the type of data collected, informative with respect to the question being studied, and correctly computed.
* Data analysis is sophisticated, novel, and/or difficult.
 | * Data is appropriately reported and displayed so that relevant findings are obvious.
* The data analysis technique(s) are appropriate for the type of data collected, informative with respect to the question being studied, and correctly computed.
 | * Inappropriate and/or uninformative data are reported.
* Data displays are incorrect, sloppy, or difficult to interpret.
* The data analysis technique(s) are inappropriate for the type of data collected.
* Data analysis is incorrectly computed.
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| **Analysis** | * Reviews results relative to the problem defined with thorough, specific considerations of need for further work.
* Uses analysis of data as the basis for drawing clear and concise conclusions from the research work done.
 | * Reviews results relative to the problem defined with some consideration of need for further work.
* Uses analysis of data as the basis for drawing mostly clear and concise conclusions from the research work done.
 | * Compose reports, research papers or journal articles that are complete, well-written, formatted appropriately and include appropriate citations.
* Expresses ideas in an organized, clear and concise manner.
 |  |
| **Technical Skills** | * Shows skill in technical procedures and instruments.
* Is able to consistently reproduce high quality results.
 | * Shows some skill in technical procedures and instruments.
* Quality of results may be inconsistent.
 | * Does not display skill in technical procedures and instruments.
* Consistently fails to reproduce results.
 |  |
| **Record Keeping** | * Keeps complete, organized, and legible records.
 | * Keeps complete records, but they may be disorganized or have legibility issues.
 | * Does not keep complete records, or components are missing, inadequate, or have unexplained gaps.
 |  |
| **Laboratory Safety** | * Follows correct safety procedures in the laboratory
* Actively seeks training or information when necessary
 | * Follows correct safety procedures in the laboratory after receiving training
 | * Needs to be reminded repeatedly to engage in safe laboratory procedures.
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\*Inadequate opportunity to observe

Maximum possible points are 80 (if all categories are observed)

For purpose of assigning letter grade use the following scale:

A: 100 – 90%

B: 89 – 80%

C: 79 – 70%

D: 69 – 60%

F: <60%