# Technical Report Rubric

Use a Technical Report to document the results of an application of the Engineering Process

* Define the problem
* Describe the solution
* Document the implementation of the solution
* Evaluate the success of the solution

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|  | **Purpose and Background** | **Design of the Solution** | **Implementation of the Solution** | Evaluation of the Solution |
| **4** | * Purpose of the project is explained and developed relative to significant social, historical, or personal issues * Historical background of the concept and it’s implications are discussed * Develops a particularly unique interpretation of the problem | * Past, Present, and Future of the Design is explained and developed * Personal insight and explanation of Design Method | * Significant progress is made on the project * Design decisions are connected to the implementation * Evidence of appropriate and successful modifications or alterations to Design | * Consequences of results are connected to broad topics or issues * Analyzes strengths and weaknesses of solution * Opportunities for further research and development suggested by the project are described |
| **3** | * Appropriately formatted title page with descriptive title and abstract * Clearly established social need for the problem to be solved * Criteria For Success is clearly stated | * Explanation of underlying scientific laws, concepts, and calculations, of the Design * Clearly defines the Design of the solution * Includes appropriate graphical descriptions of the design * Identifies choices made in establishing Design * Complete Materials list | * Moderate progress is made on the project * Explanation of process of implementation of Design * Includes appropriate graphical descriptions and documentation of the implementation * Addresses modifications made in the Design | * Establishes a criteria for the success of the project * Evaluates performance based on the criteria for success * Evidence of success or failure is communicated (may included table, graph, or observations) * Outside sources are properly documented using MLA style |
| **2** | * Title and abstract do not effectively convey the contents of the report * Purpose of the experiment is unclear or mundane * Criteria is too simple or complex | * Unclear explanation of the Design * Theoretical background is faulty or otherwise inaccurate * No evidence of choices or decisions made in the Design | * Narrative version of events * Explanation of modifications are unclear or mundane | * Product performance is not evaluated based on criteria * Evidence of success or failure is not clearly stated |
| **1** | * Inappropriate title * No Abstract * No Problem Statement * No criteria for success | * No explanation of Theoretical background * No Design is included * Design materials are not identified | * No explanation of process of implementation * No evidence of modification | * No statement of performance * Improperly documented sources |