Rubric for student outcome 1b: Evaluation of Most Important Criteria

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|  | **Performance Indicators** | **Below standard** | **Meets standard** | **Above standard** | **Exemplary performance** |
| 1 | Verification of Important Criterion | Choices are not supported with any numerical data or mechanical variables.  | Choices show evidence of mechanical consideration; basic quantitative data provided. | Choices show mechanical consideration with formulas and dependent variables. Quantitative examples provided. | Choices are mechanically supported through equations and variables, quantitative examples provided, formula manipulation evident. |
| 2 | Treehouse Impact | Criteria’s relationship to treehouse design not explained or not understandable.  | Criteria’s relationship to treehouse design is mentioned, but not with detail. | Criteria’s relationship to treehouse design is discussed, with supporting scenarios. | Criteria’s relationship to treehouse design is foremost; scenarios and formulas revolve around how the design is impacted.  |
| 3 | Presentation of possible solutions | No possible solutions are provided to the problems posed by the criteria. | A single solution is provided to the problems posed, may not be explained. | A single solution is provided to the problems, and explanation is given as to how this would counteract the issue. | Multiple solutions are provided to the problems posed; reasoning behind solutions are provided, solutions may be compared in terms of functionality. |
| 4 | Societal Impact (Curiosity & Project Engagement) | Solutions/criteria show little time commitment; only basic mechanical needs considered. | Solutions/criteria show some research beyond purely mechanical considerations. | Solutions/criteria relate to or emphasize effects on surrounding environment, client needs, or other external factors. | Solutions/criteria consider, and are hinged around the impact of the structure on its surroundings and client needs. Feasibility in larger society is discussed.  |