**MISSION TO MARS: SLS DESIGN CHALLENGE**



**PROJECT RUBRIC – MECHANICAL ENGINEERS**

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| **CRITERIA** | **POINTS** |
| **PARTS 1 & 2 – RESEARCH THE ENGINEERING PROBLEM** | **/15** |
| * All sections of research 100% complete
 |
| **PART 3 – IMAGINE POSSIBLE SOLUTIONS** | **/30** |
| * Phase 1 structures listed relate to research conducted and are most relevant to the goal of the project
 |
| * At least 1 Phase 2 prototype digitally modeled on Tinkercad
 |
| * Digital prototype shows relevant structures
 |
| * 3 prototype ideas were evaluated (advantages & disadvantages)
 |
| * Conclusion contains at least one claim supported by evidence & reasoning
 |
| **PART 4 – CREATE & TEST PROTOTYPE** | **/15** |
| * Prototype meets constraints
 |
| * Testing data 100% complete & accurate
 |
| **PART 5 – FINAL COMMUNICATION** | **/30** |
| * Individual group launch data 100% complete & accurate (Table 1)
 |
| * Comparison group launch data table 100% complete (Table 2)
 |
| * Conclusion contains at least one claim supported by evidence and reasoning
 |
| **ENGANGED IN LEARNING** |  |
| * Effort
 | **0 1 2** |
| * Teamwork
 | **0 1 2** |
| * Helpful
 | **0 1 2** |
| * Prepared
 | **0 1 2** |
| * Calm
 | **0 1 2** |