Engineering design rubric

Names:

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| **Item/points** | **Score** | **Comments** |
| **Research (15)**   * Detailed notes taken on heat, buoyancy, and microbes * All resources used to take notes |  |  |
| **Collaboration (15)**   * Group developed and documented a collaboration plan * Group members stayed focused and on-task * Group members created emotional safety within the group so that everyone felt free to offer ideas * Group members listened to each other with care |  |  |
| **Experimenting (20)**   * Heat, buoyancy, and microbe researchers worked to become mini experts on their topic * Collected and documented data * Reported results to group |  |  |
| **Documentation of building and design (25)**   * Final design demonstrates application of heat, buoyancy, and microbe research and experiments * Understanding of constraints and the needs of client is evident * Design process documented in writing * Pictures and sketches included * Trials of each test recorded; heat loss calculated from each design * Observations recorded * Costs calculated |  |  |
| **Communication (25)**   * Each group member participated in the presentation * Final design was explained using data to support the choice of materials and design features * Each group member demonstrated knowledge about his or her expertise * Information in presentation was organized in a logical way * Individual reflection completed |  |  |
| **Total** | \_\_\_/100 |  |