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
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| **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
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| **Experimenting (20)*** Heat, buoyancy, and microbe researchers worked to become mini experts on their topic
* Collected and documented data
* Reported results to group
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| **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
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| **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
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| **Total** | \_\_\_/100 |  |