**RUBRIC for the Insulation Creation Engineering Design Model**

**Team Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| Category | 10 | 6-9 | 2-5 | 0-1 |
| Sketches | There is one sketch listed for every step of the house box construction project. The sketches show accurate metric measurements and the timeline of how the house was constructed. | There is almost one sketch for every step listed. The sketches show most of the metric measurements and construction process. | There are some sketches listed. The sketches show some of the metric measurements. It would be difficult to rebuild this design with the information provided. | The sketches were not drawn or were not well constructed. Measurements were not in metric. The student needs to redo this section. |
| Procedure or steps | The written technical instructions match the sketches. There are no steps missing in the creation of the house. The steps are understandable. It will be easy for someone else to rebuild the creation. | The written technical instructions match the sketches somewhat. There are some steps missing in the procedure to create this house. The steps are somewhat understandable. | The written technical instructions do not match the sketches. There are many steps missing in the procedure which would make it almost impossible to recreate this house. | There was no procedure or steps provided or the procedure was so poorly written it is impossible to recreate this project. The student needs to redo this section. |
| House creation | All engineering constraints were accounted for. Team worked effectively and cooperatively in completing the construction. | There was at least one engineering constraint that the team did not account for. Team worked effectively and cooperatively in completing the construction. | At least two engineering constraints were not accounted for. Team did not work effectively and cooperatively in completing the construction. Time was wasted. | Too many errors in the construction of the project. Team was disruptive and did not use their time wisely. Team needs to reconstruct the actual project. |
| Data chart | Team collected the qualitative and quantitative data accurately and effectively. | Team collected some qualitative and quantitative data but errors are apparent in the collection process. | Team collected either the temperatures or visual observations, but not both. The instructor witnessed errors in collecting the data. | No data was collected or the data is obviously very inaccurate due to how the data was collected. The team needs to redo this section. |
| Peer presentation | Team did an excellent job of explaining their home, data, and provided evidence of why their gelatin solidified or stayed in liquid form. They provided a recommendation concerning their insulation. The team did a professional job all around. | Team provided a peer presentation. They did an adequate job of describing the data, their home, and gave some explanation about the insulating properties of their material. | Team provided a limited presentation on their house, data, and insulation. There was information that was missing. The presentation lacked professionalism. | The team either did not provide a presentation or it was so poorly delivered it was difficult to discern the information they provided. The team needs to redo this section. |
| Points earned | Out of 50 | Out of 30-45 | Out of 10-25 | Must redo |