

MAGLEV Contest Student Design Portfolio Judging Rubric **APPEARANCE CATEGORIES**

| **Criteria** | **3** | **2** | **1** | **0** |
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| **Investigation** | Thorough research. 4 or more questions and answers. | Sufficient research with 2 or 3 questions and answers. | Little research with 1 answered question. | No background research or questions. |
| **Brainstorming for Solutions** | 3 or more sketches on attached paper. Written design ideas, materials. | 2 design sketches with written ideas. | 1 sketch with a few written ideas. | No design sketches or ideas. |
| **Optimum Design** | Thoroughly describes vehicle design choice and lists several reasons to support their decision. | Describes design choice and gives a few reasons for their decision. | Describes design choice and gives 1 reason. | No choice listed. |
| Design Changes | Details of several changes and/or techniques or finishing methods described. Sketch attached. | Detail of a change and/or one technique or finishing method described. | Some Information listed.  | No Information listed. |
| **Evaluation** | Detailed description/sketch of the final vehicle. Creative design inspiration. | Description/ sketch of vehicle included.Design inspiration listed.  | Description/sketch is minimal. No inspiration credited. | No description or sketch is included. |
| Craftsmanship*(Overall Impression)* | Exemplary craftsmanship. Creative/original design concept. | Neat craftsmanship. Unique perspective on a traditional design.  | Fair craftsmanship.Embellished a traditional design. | Poor craftsmanship. Design not original. |