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| **Livingston & Haven Design Project (English Integration)**  |
| **#** | **Item** | **Pts.** | **Pts. Scored** | **Subject Area** | **Sub Area** | **Major Area** |
| 1 | Cover page  | 3 |   | English | Design notebook | ENGINEERING DESIGN |
| 2 | Title page  | 3 |   | English | Design notebook | ENGINEERING DESIGN |
| 3 | Table of contents  | 3 |   | English | Design notebook | ENGINEERING DESIGN |
| 4 | Clarity  | 5 |   | English | Artisanship of writing  | ESSAYS ON TECHNOLOGY |
| 5 | Convincing  | 5 |   | English | Artisanship of writing  | ESSAYS ON TECHNOLOGY |
| 6 | Insightful  | 5 |   | English | Artisanship of writing  | ESSAYS ON TECHNOLOGY |
| 7 | Introduction  | 5 |   | English | Organization-structure-flow | ESSAYS ON TECHNOLOGY |
| 8 | Body  | 5 |   | English | Organization-structure-flow | ESSAYS ON TECHNOLOGY |
| 9 | Conclusion  | 5 |   | English | Organization-structure-flow | ESSAYS ON TECHNOLOGY |
| 10 | Flow  | 5 |   | English | Organization-structure-flow | ESSAYS ON TECHNOLOGY |
| 11 | Thesis (position) statement clarity  | 10 |   | English | Organization-structure-flow | ESSAYS ON TECHNOLOGY |
| 12 | Punctuation  | 10 |   | English | Mechanics | ESSAYS ON TECHNOLOGY |
| 13 | Spelling  | 10 |   | English | Mechanics | ESSAYS ON TECHNOLOGY |
| 14 | Neatness  | 10 |   | English | Mechanics | ESSAYS ON TECHNOLOGY |
| 15 | Bibliography format (APA) References/resources  | 16 |   | English | Mechanics | ESSAYS ON TECHNOLOGY |
|   |  | 100 |   |  |  |   |
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| **Livingston & Haven Design Project (Math Integration)**  |
| **#** | **Item** | **Points** | **Pts. Scored** | **Subject Area** | **Sub Area** | **Major Area** |
| 1 | Dimensioning (correct size and proportion)  | 15 |   | Math | Modeling technique  | (CAD) 3D, ENGINEERING |
| 2 | Correct geometry  | 20 |   | Math | Modeling technique  | (CAD) 3D, ENGINEERING |
| 3 | Math and science concepts  | 25 |   | Math | Model/prototype | ENGINEERING DESIGN |
| 4 | All dimensions, descriptions, measurements are presented in metric units | 40 |   | Math | Model/prototype | ENGINEERING DESIGN |
|   |  | 100 |   |  |  |   |
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| **Livingston & Haven Design Project (Science Integration)**  |
| **#** | **Item** | **Points** | **Pts. Scored** | **Subject Area** | **Sub Area** | **Major Area** |
| 1 | Technology areas  | 5 |   | Science | Model/prototype | ENGINEERING DESIGN |
| 2 | Appropriate procedures  | 5 |   | Science | Modeling technique  | (CAD) 3D, ENGINEERING |
| 3 | Supported by research  | 10 |   | Science | Concepts | ESSAYS ON TECHNOLOGY |
| 4 | Design  | 20 |   | Science | Design, originality, and creativity | (CAD) 3D, ENGINEERING |
| 5 | Functionality  | 20 |   | Science | Design, originality, and creativity | (CAD) 3D, ENGINEERING |
| 6 | Originality  | 20 |   | Science | Design, originality, and creativity | (CAD) 3D, ENGINEERING |
| 7 | Solution’s impact on the environment | 20 |   | Science | Model/prototype | ENGINEERING DESIGN |
|   |  | 100 |   |  |  |   |
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| **Livingston & Haven Design Project (Social Studies Integration)**  |
| **#** | **Item** | **Points** | **Pts. Scored** | **Subject Area** | **Sub Area** | **Major Area** |
| 1 | Important and relevant  | 10 |   | Social Studies | Concepts | ESSAYS ON TECHNOLOGY |
| 2 | Effectiveness of design  | 10 |   | Social Studies | Model/prototype | ENGINEERING DESIGN |
| 3 | Clear and effective presentation of the design  | 10 |   | Social Studies | Model/prototype | ENGINEERING DESIGN |
| 4 | Appearance and quality  | 10 |   | Social Studies | Model/prototype | ENGINEERING DESIGN |
| 5 | Marketability and usefulness  | 30 |   | Social Studies | Model/prototype | ENGINEERING DESIGN |
| 6 | Solution’s impact on society | 30 |   | Social Studies | Model/prototype | ENGINEERING DESIGN |
|   |  | 100 |   |  |  |   |
|   |  |  |  |  | **Total Points** |   |
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| **Livingston & Haven Design Project (STEM Integration)**  |
| **#** | **Item** | **Points** | **Pts. Scored** | **Subject Area** | **Sub Area** | **Major Area** |
| 1 | Technically correct  | 5 |   | STEM | Concepts | ESSAYS ON TECHNOLOGY |
| 2 | Problem solving steps  | 5 |   | STEM | Design notebook | ENGINEERING DESIGN |
| 3 | Plan of Work log  | 5 |   | STEM | Design notebook | ENGINEERING DESIGN |
| 4 | Research  | 5 |   | STEM | Design notebook | ENGINEERING DESIGN |
| 5 | Relevance  | 5 |   | STEM | Research and references | ESSAYS ON TECHNOLOGY |
| 6 | Creativity and innovation  | 5 |   | STEM | Model/prototype | ENGINEERING DESIGN |
| 7 | Appearance and quality of construction  | 5 |   | STEM | Model/prototype | ENGINEERING DESIGN |
| 8 | Technical drawing  | 5 |   | STEM | Model/prototype | ENGINEERING DESIGN |
| 9 | Craftsmanship  | 5 |   | STEM | Product | MANUFACTURING PROTOTYPE |
| 10 | Product function  | 5 |   | STEM | Product | MANUFACTURING PROTOTYPE |
| 11 | Product solution  | 5 |   | STEM | Product | MANUFACTURING PROTOTYPE |
| 12 | Aesthetics  | 5 |   | STEM | Product | MANUFACTURING PROTOTYPE |
| 13 | Originality  | 5 |   | STEM | Product | MANUFACTURING PROTOTYPE |
| 14 | Overall quality  | 5 |   | STEM | Product | MANUFACTURING PROTOTYPE |
| 15 | Conventions  | 5 |   | STEM | Use of engineering | (CAD) 3D, ENGINEERING |
| 16 | Aesthetics  | 5 |   | STEM | Use of engineering | (CAD) 3D, ENGINEERING |
| 17 | Design brief  | 5 |   | STEM | Design notebook | ENGINEERING DESIGN |
| 18 | Brainstorming  | 5 |   | STEM | Design notebook | ENGINEERING DESIGN |
| 19 | Three (3) solutions  | 5 |   | STEM | Design notebook | ENGINEERING DESIGN |
| 20 | Final solution description  | 5 |   | STEM | Design notebook | ENGINEERING DESIGN |
|   |  | 100 |   |  |  |   |
|   |  |  |  |  | **Total Points** |   |
|   | **Teacher Sign Off** |
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| **Livingston & Haven Design Project Judge's Sheet** |
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| **Team #** |
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| **Team Name:** |
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| **Each area judged 1-10 scale by a panel of industry professionals** |
| **Scored Areas** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **Creativeness** |   |   |   |   |   |   |   |   |   |   |
| **Inventiveness** |   |   |   |   |   |   |   |   |   |   |
| **Uniqueness** |   |   |   |   |   |   |   |   |   |   |
| **Practicality** |   |   |   |   |   |   |   |   |   |   |
| **Usefulness** |   |   |   |   |   |   |   |   |   |   |
| **Cost Effectiveness** |   |   |   |   |   |   |   |   |   |   |
| **Marketability** |   |   |   |   |   |   |   |   |   |   |
| **Impactfulness** |   |   |   |   |   |   |   |   |   |   |
| **Potential Customers** |   |   |   |   |   |   |   |   |   |   |
| **Presentation** |   |   |   |   |   |   |   |   |   |   |
| **Research** |   |   |   |   |   |   |   |   |   |   |
| **Overall Impression** |   |   |   |   |   |   |   |   |   |   |
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