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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 |  |  |  |  |
|  |  |  |  |  | **Total Points** |  |
|  | **Teacher Sign Off** | | | |
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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 |  |  |  |  |
|  |  |  |  |  | **Total Points** |  |
|  | **Teacher Sign Off** | | | |
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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 |  |  |  |  |
|  |  |  |  |  | **Total Points** |  |
|  | **Teacher Sign Off** | | | |
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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** |  |
|  | **Teacher Sign Off** | | | |
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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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|  | Teacher's Subject Area: | | | | | |
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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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