**Design Challenge - Bridge**

Waterford Valley High School

Science Fair Grading Sheet 2017

Student Name(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Problem Stated

|  |
| --- |
| 1 |
|  |

Constraints Identified and Satisfied (Materials, L=50cm, W=6-15cm H=25cm)

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
|  |  |  |  |

Summary of Research

-Bridge Designs found in your Research (*2 with sketches)*

-Alternate Solutions (bridge design with your modifications *2 with sketches)*

(including but not limited to words, pictures, thumbnails)

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
|  |  |  |  |

Identify Chosen Design and Explain why you Chose it (*3 reasons*)

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 3 |
|  |  |  |

Labelled Diagram

|  |
| --- |
| 2 |
|  |

Approved Proposal Sheet

|  |
| --- |
| 2 |
|  |

Quality

-Uniform and Symmetrical, Clean and Neat

-Test Vehicle can Pass Freely along the Bridge

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
|  |  |  |  |

-Strength

Bridge has failed when the bucket holding the load hits the ground.

*By ranking Bridges – determine mark out of 5*

|  |  |
| --- | --- |
| Max Load | 1 - 5 |
|  |  |

## Total /25