**Making Parachutes**

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**Group Members**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Manipulated Variable:** Canopy material

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |

**Manipulated Variable:** Dimensions and shape of canopy

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |

**Manipulated Variable:** Shroud line material

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |

**Manipulated Variable:** Length of shroud lines

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |

**Manipulated Variable:** Number of shroud lines

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| --- | --- | --- |
| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |

**Manipulated Variable:** Size of the air hole

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| --- | --- | --- |
| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |

**Manipulated Variable:** Type of load

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| --- | --- | --- |
| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |

**Manipulated Variable:** Height of drop

**Constant Variables:**

* **-**
* **-**
* **-**
* **-**

**Responding Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Diagram of original design:** | **Diagram of final design:** |
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| **Test** | **Results** | **Modifications** |
| **#1** |  |  |
| **#2** |  |  |
| **#3** |  |  |