 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**MacGyver Wind Lift Design Challenge**

**Student Datasheet**

 *Note: You will need the chart from your teacher to enter the Force*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trial | # of pennies | Force (newtons)copied from chart  | X | Length of string(meters) | = | Work (joules)  | ÷ | Time(seconds) | = | Power (watts) |
| Sample | **16** | **.4** | X | **.5** | = | **.2** | ÷ | **8** | = | **.025** |
| Design #1 |  |  | X | .5 | = |  | ÷ |  | = |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trial | # of pennies | Force (newtons)Copied from chart  | X | Length of string(meters) | = | Work (joules)  | ÷ | Time(seconds) | = | Power (watts) |
| Design #2 |  |  | X | .5 | = |  | ÷ |  | = |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trial | # of pennies | Force (newtons)Copied from chart  | X | Length of string(meters) | = | Work (joules)  | ÷ | Time(seconds) | = | Power (watts) |
| Design #3 |  |  | X | .5 | = |  | ÷ |  | = |  |

**Results:**

|  |  |
| --- | --- |
| Power for Design #1 |  |
| Power for Design #2 |  |
| Power for Design #3 |  |