**Tracking Criteria**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **Carry a large amount of weight** | **Not capsize under waves** | **Use the least amount of material** | **\*optional total score\*** |
| Student group 1 | 7 quarters | Float | 7.1 g |   |
| Student group 2 | 7 quarters | Float | 6.3 g |   |
| Student group 3 | 15 quarters | Capsized | 10g |   |
| Student group 4 | 6 quarters | Capsized | 4.6 g |   |
| Student group 5 | 10 quarters | Float | 7.3 g |   |

 **Example of a way to calculate points**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **Carry a large amount of weight** | **Not capsize under waves** | **Use the least amount of material** | **\*optional total score\*** |
| Student group 1 | 7 quarters*(1 point)* | Float*(5 points)* | 7.1 g*(2.9 points)* | 8.9 |
| Student group 2 | 7 quarters*(1 point)* | Float*(5 points)* | 6.3 g(3.7 points) | 9.7 |
| Student group 3 | 15 quarters*(9 points)* | Capsized | 10g*(0 points)* | 9 |
| Student group 4 | 6 quarters*(0 points)* | Capsized | 4.6 g*(5.4 points)* | 5.4 |
| Student group 5 | 10 quarters*(4 points)* | Float*(5 points)* | 7.3 g*(2.7 grams)* | 11.7 |
| POINTS | 6 quarters: 0 points**+1 point for each quarter over 6** (ex: 1 point for 7 quarters, 2 points for 8 quarters) | **5 points for a boat that did not capsize under waves** | 10g: 0 points**+1 point for each gram under 10** (ex: 1 point for 9 grams, 2 points for 8 grams) |   |

 **Blank Copy**

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| --- | --- | --- | --- | --- |
| **Criteria** | **Carry a large amount of weight** | **Not capsize under waves** | **Use the least amount of material** | **\*optional total score\*** |
| Student group 1 |  |  |  |   |
| Student group 2 |  |  |  |   |
| Student group 3 |  |  |  |   |
| Student group 4 |  |  |  |   |
| Student group 5 |  |  |  |   |