

Forces in Fluids • Chapter Project

Scoring Rubric

Lab Zone Chapter Project Staying Afloat

In evaluating how well you complete the Chapter Project, your teacher will judge your work in four categories. In each, a score of 4 is the best rating.

	4	3	2	1
Designing the Boat	Boat is all metal, fits in 15 cm square, has no sharp edges, and weighs less than 10 pennies. Boat holds 50 pennies for at least 10 seconds.	Boat is all metal, fits in 15 cm square, has no sharp edges, and weighs less than 20 pennies. Boat holds 50 pennies for at least 6 seconds.	Boat does not meet the size specification, has non-metal parts or sharp edges. Boat weighs less than 30 pennies. Boat holds 50 pennies for at least 4 seconds.	Boat will not fit through 15 cm square or has non-metal parts or sharp edges or weighs more than 30 pennies. Boat holds 50 pennies for 2 seconds or less.
Making Observations	All relevant data and sketches accurately recorded in the Data Log. Data Log is an accurate record of the progression of the project.	Most relevant data and sketches accurately recorded in the Data Log. Data Log is a fairly accurate record of the progression of the project.	Some relevant data and sketches accurately recorded in the Data Log. Data Log is a spotty record of the progression of the project.	Some data is recorded in the Data Log, but the Data Log is not a clear record of the progression of the project.
Revising the Design	Data log shows that 4 or more changes based on testing and weighing the boat were made.	Data log shows that 3 changes based on testing and weighing the boat were made.	Data log shows that 2 changes based on testing and weighing the boat were made.	Data log shows that 1 change based on testing and weighing the boat was made.
Presenting the Boat	Presentation of design, construction, modification, and testing is clear and complete.	Presentation of design, construction, modification, and testing is clear but incomplete.	Presentation of design, construction, modification, and testing is fairly clear and but incomplete.	Presentation of design, construction, modification, and testing is minimal.