

Buoyancy Boat Building

NAME: _____

All students are required to complete this planning sheet—even if you're working with a group! ALL LABS are to be completed in PENCIL!

These are the materials I plan to use to construct my ship and explanations (in complete sentences) of why I'm including them (continue on a separate piece of paper if necessary):

Material	Explanation

Here is a basic drawing of how I plan to construct my ship (please label material):

- You may use any materials that you can find, but your entire boat **MUST** fit inside a box that measures *approximately 3 1/8 x 2 1/8 x 6 1/8 inches*.
- Consider what you know about the *types* of materials that float
- Consider the shape of your boat for **stability** and design it in a way that it won't capsize
- Leave room for cargo—your success will be determined by how much extra cargo you can carry
- You must provide a schematic (drawing) of how you plan to build your boat (above).
- Your boat **MUST BE COMPLETED** by the next class (FRIDAY)—you must sign up to work in groups **IN ADVANCE** of Friday's class when your boat is due.
- You will have the chance to grade your partner(s) on individual contribution to the ideas and construction of the boat, and you will be graded by them.