Gravity

m_{object}
(mass of the object)

ρ_{object} (density of the object)

ρ_{fluid}
(density of the fluid)

Buoyancy

Gravity

Density of boat

Density of water

Buoyancy

Density of water = 1 gram per milliliter

$$mass \div volume = density$$

Design Matrix:
Order these from most important to least important (top to bottom).

Cost/Resources, Buoyancy, Time in Water, Appearance of Design

Categories:	Scores (1-5):	Drawing:

Testing Your Design

Max Weight Held	# of Marbles	Resources (Total number):	Point of Failure:	Time of Failure	What to fix