Name:	Period:	Date:
Aluminum Foil Penny Boat Lab Using Archimedes' Principle and Buoyancy		
<i>Hint:</i> Remember that Archimedes' Principle tells us the buoyant force on an object is equal to the weight of the fluid displaced by that object. This means that if you are trying to carry as much weight as possible in a boat, you are trying to have the most buoyant force.		
Instructions:		
 Form groups of three. Obtain a 10cm x 10cm piece of aluminum foil. careful with it. Decide on a name for your boat. It must be sch Fold, bend, cut or modify your aluminum foil i a shape that can hold as many pennies as poss When you have finished creating your boat, w Once each group is finished (or after 15 minut You will earn 3 points for each penny your boat 	nool appropriate. Into a boat. It may be any Ible without sinking. Interior of the state of the state of the state It is a state of the state of	y shape. Your goal is to make n the board. each boat's penny capacity.
Questions (10 points each):		
1. What shape of boat was the most successful?	Why?	
2. The mass of a penny is 2.5g. If a boat can hold water it displaces? (The density of water is 1.0	-	ng, what is the mass of the
3. If you are told that a boat can displace 75 mL of sinking?	of water, how many pen	nies can it hold before
4. Mercury, a metal that is liquid at room temper How many pennies could your boat hold if we		
Name of your boat:		

How many pennies did your boat hold?_____