

		Mass (LBS)			Total Mass (lbs)
<u>Item</u>	<u>Volume (in³)</u>	<u>Density (lbs/in³)</u>	<u>Mass (lbs)</u>	<u>Category Mass (lbs)</u>	
		ABS Plastics			
Top 1	26.660	0.055	1.466		
Top 2	26.633	0.055	1.465		
Fwd	139.844	0.055	7.691	17.133	
Aft	118.370	0.055	6.510		
		Metals			
Left Framing	6.370	0.098	0.621		
Right Framing	6.370	0.098	0.621	2.123	
Bottom	9.033	0.098	0.881		
		Electronics			
RaspberryPi B+	N/A	N/A	0.093		24.959
Arduino Mega 2560 Rev3	N/A	N/A	0.082		
Wiring	N/A	N/A	0.250		
Led Lights + Power Supply	N/A	N/A	0.045		
Thruster Motor	N/A	N/A	0.516	5.681	
Thruster Housing	N/A	N/A	0.794		
Multistar High Capacity					
20000mAh 4S 10C Multi-Rotor	N/A	N/A	3.902		
Lipo Pack w/XT90					
		Internal Air			
Within Flotation	514.719	0.0000442559	0.023	0.023	
	Volume of Water Displaced (in ³)			Total Mass of water Displaced (lbs)	
<u>Item</u>	<u>Volume (in³)</u>	<u>Density (lbs/in³)</u>	<u>Mass (lbs)</u>	<u>Category Mass (lbs)</u>	
		Internal Air			
Within Flotation	514.719	0.036	18.595	18.595	
		ABS Plastics			
Top 1	26.660	0.036	0.963		
Top 2	26.633	0.036	0.962		
Fwd	139.844	0.036	5.052	11.254	
Aft	118.370	0.036	4.276		30.636
		Metals			
Left Framing	6.370	0.036	0.230		
Right Framing	6.370	0.036	0.230	0.787	
Bottom	9.033	0.036	0.326		

Buoyancy

5.677

lbs postive
buoyancy