

2010 SCOUT Class
Design & Innovation Score Sheet

School/Team _____ Team # _____

Tabulator _____ Score _____

Scoring official: Please note and record each bullet with a 2 for excellent, 1 for average or 0 for below average

AREA	ATTRIBUTES	FEATURES	POSSIBLE	SCORE
FRAME	GENERAL	Is it firmly constructed?	2 1 0	
		Is it made of appropriate material?	2 1 0	
		Are there hydrodynamic considerations?	2 1 0	
		Are there special water pressure design considerations?	2 1 0	
	BALLAST	Is the ballast located below the floatation?	2 1 0	
	BUOYANCY	Is the floatation easily adjustable?	2 1 0	
	RETRIEVAL	Is the vehicle designed to retrieve crustaceans, spires and mats?	2 1 0	
		Does it have features that allow it to carry the HRH and connector?	2 1 0	
			FRAME SUBTOTAL:	
POWER	MOTORS	Are they sized appropriately for the vehicle?	2 1 0	
		Have waterproofing measures been taken? If not, does the team have a motor care protocol?	2 1 0	
		Are they securely attached?	2 1 0	
		Are they easy to replace?	2 1 0	
	PROPULSION	Is it maneuverable in 3 dimensions?	2 1 0	
		Does the design of the ROV allow for protection of the props?	2 1 0	
	CONTROL BOX	Can it be easily opened for modifications and repairs?	2 1 0	
		Are the switches labeled?	2 1 0	
		Is it ergonomically sensible?	2 1 0	
		Is it neatly wired internally?	2 1 0	
	WIRING & TETHER	Is there a strain relief at the control box?	2 1 0	
		Is there a strain relief at the ROV?	2 1 0	
		Is it flexible enough to allow easy maneuverability?	2 1 0	
		Is the tether neatly finished?	2 1 0	
	Is the wiring harness neatly and securely attached to the frame?	2 1 0		
	Are subsurface wire connections waterproof?	2 1 0		
			POWER SUBTOTAL:	
OTHER	FEATURES	Mechanical arm	2 1 0	
		Camera	2 1 0	
		Attachments (Describe)	2 1 0	
				OTHER SUBTOTAL:
		JUDGE INITIALS	FINAL SCORE	