

Mini Drone Project Rubric

Criteria	Programmable Drone (Group)			Score
	5	3	1	
Construction	Great care taken in construction process so that the structure follows plans accurately. Drone is able to take off from the ground.	Construction somewhat careful and accurately followed the plans. Motors are able to spin but drone does not lift off the ground	Construction appears careless or haphazard. Many details need refinement for a strong product. Only some motors spin.	
Working Prototype	The drone can be controlled by the potentiometer and the ultrasonic sensor.	The drone is able to fly but is not controlled by the potentiometer and ultrasonic.	The drone is not able to fly.	
End Goal	Students will create a drone by developing and modeling the circuitry for a potentiometer and an ultrasonic sensor with a push button. Students develop an Arduino program to use a potentiometer and ultrasonic to control the drone.	Only 1 of the conditions is met.	Both the circuitry and program have defects causing the end goal to be unachievable.	
Aesthetics	Employed the use of pseudocode to program a drone using Arduino. All semantics and syntax are correct. Code has user readability including correct use of pseudocode, comments and white space	Only 2 of the conditions are met.	Only 1 of the conditions is met.	
Overall Impression	The overall project looks well thought through and is functional	The overall project looks somewhat thought through and is semi-functional	The project does not look well thought through and is not functional	
TOTAL				

Comments: