

Ocean Research Sensor Worksheet

Interpret the results. 1. How would you describe Sphero's movement?					
2. What percentage of collisions	were:				
a) Low impact?	Value range:				
b) Moderate impact?	Value range:				
c) High impact?	Value range:				
3. What are some of the advanta kind of research? Which variable			sing a robot like Sphero, for this		
Advantages			Disadvantages		

4. How could the design of the sensor be improved to be more effective for research on the ocean floor?				
Step 5: Modify the program.				
 The researchers on your team have asked for a modification to the program to focus their finding on forces that move Sphero with a moderate level of force (e.g., stronger currents or tides, but n direct collisions with other objects on the ocean floor). 	_			
2. Working with a partner, think about the request and brainstorm useful ways in which Sphero cousignal to the researchers that a moderate impact has been detected. List them below.	ld			
List your ideas here. (Try to think of at least 3 different signal solutions.)				
3. Select one signal solution to develop and test. Which one have you selected and why? How will this be helpful to the researchers?				

4.	Write the lines of code you are planning to achieve this signal solution.
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5. Create the code and write it here. Write any space beside it.	y notes about your program and how it works in the
C. Finalization of the state of	
effective as possible. Share your code with ano	eam members to ensure that their final solution is as ther pair of students and encourage them to share their
code with you.	
Revisit your solution. Could it be improved by in	ncorporating some of their ideas?