

High School Worksheet Sea Perch Design Notebooks

Answers to the following questions must be included in the Sea Perch Design Notebook.

1. What is the density of fresh water in ounces per cubic inch?
2. What is the density of salt water in ounces per cubic inch?
3. What is the definition of buoyancy?
4. What is the definition of neutrally buoyant?
5. Why is buoyancy important to consider when building an ROV?
6. What is the definition of Naval displacement?
7. What is ballast?
8. What is the Naval displacement of your ROV in fresh water in ounces?
9. What is the Naval displacement of your ROV in salt water in ounces?
10. If you know the displacement (volume) of your ROV, how much ballast, in ounces, do you need to make it neutrally buoyant in fresh water?
11. If you know the displacement (volume) of your ROV, how much ballast, in ounces, do you need to make it neutrally buoyant in salt water?
12. What is the minimum amount of ballast, in ounces, you need on your ROV to make it submerge while using the down thruster?
13. What is the maximum payload your ROV can carry in ounces?