

CAPTAIN NEMO CHALLENGE

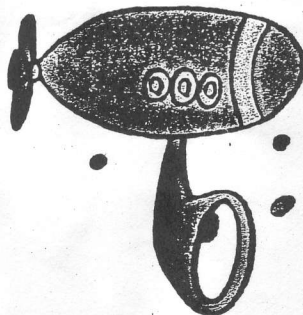
NAME: _____
PERIOD: _____

QUARTER PROJECT

DUE DATE: _____

I CHALLENGE:

You are to design and build a device that will sink and then resurface.



II RULES:

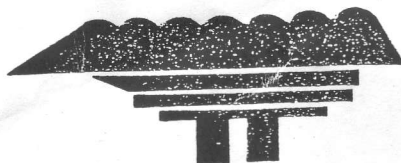
1. You must supply everything needed to build your device.
2. The entire device must sink, and remain on the bottom for at least 5 seconds.
3. The entire device or any part of the device must resurface within 5 minutes. (large fish tank)
4. Water will be the liquid used to test your device. (in 9" of water)
5. You may not help your device in any way once it is placed in the water.
6. Your device must be built and brought to class by the assigned due date.
7. Your grade will be determined by the following:
 - a) How well your device works. (You must demonstrate it to the class.)
 - b) How well you explained WHY your device works.
 - c) How well you illustrated your device.

III WRITE UP:

1. You must explain, using scientific concepts, why your device is able to sink.
2. You must explain, using scientific concepts, why your device or part of your device is able to rise back up and float.
3. Make sure your explanation is in long, complete, scientific sentences!!

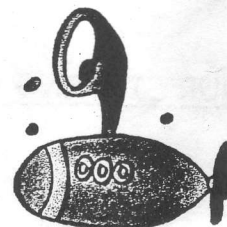
IV DIAGRAM:

1. Draw your device on the paper provided.
2. Your drawing has two parts: one part will show how your device sinks, and one part will show how your device resurfaces.
3. You must label all the parts of your device on these drawings.
4. Make sure you are neat,,,,,,and color would really help your grade!

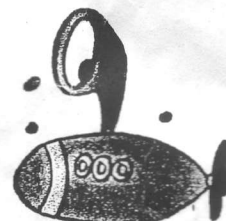


In the two parts below, you must be sure to write in **COMPLETE** sentences. Grammar and spelling count. Put a lot of thought into your explanations. A major part of your grade depends on how well you can explain how your device sinks and why it (or part of it) can resurface.

I WHY DOES MY DEVICE SINK?



II WHY DOES MY DEVICE RESURFACE?
(OR AT LEAST PART OF IT DOES.)



SCIENCE 8
1ST Q.

CAPTAIN NEMO CHALLENGE
DIAGRAM PART

NAME: _____
PERIOD: _____

INSTRUCTIONS: Make your drawings as neatly and clearly as you can. Please be sure to label all the parts of your device. Make your drawings show how your device works. Remember color will improve your grade!



I YOUR SINKING DEVICE: (LABEL ALL PARTS!)

II YOUR RESURFACING DEVICE: (LABEL ALL PARTS!)