Unit A Project Options (Choose 1 Option)

1. Create a prototype for a submarine OR a bathyscaph to show how buoyancy works. You must be able to have this model demonstrate negative, positive, and neutral buoyancy. I will have a tub of water in class for you to demonstrate this but please make sure you test it at home first.

![C:\Documents and Settings\ginaotte\Local Settings\Temporary Internet Files\Content.IE5\RFCPA54I\MC900139437[1].wmf]()

1. Create a hydraulic (water) or pneumatic (air) elevator that could lift up a golf ball or ten pennies up to 30cm. You must be able to demonstrate that the elevator can lift it up and down.

![C:\Documents and Settings\ginaotte\Local Settings\Temporary Internet Files\Content.IE5\I74U2C7S\MC900230297[1].wmf]()

1. Research and display how heart valves work and what can be done to replace those that no longer work. You will need to show where and how the new valves work.

How you are graded:

1. Model (25 marks)
2. Written report (information, steps needed to build it, how it relates to the text book) (15 marks)
3. Presentation (Were you able to demonstrate a successful project to the class) (15 marks)

Total: 55 Marks