

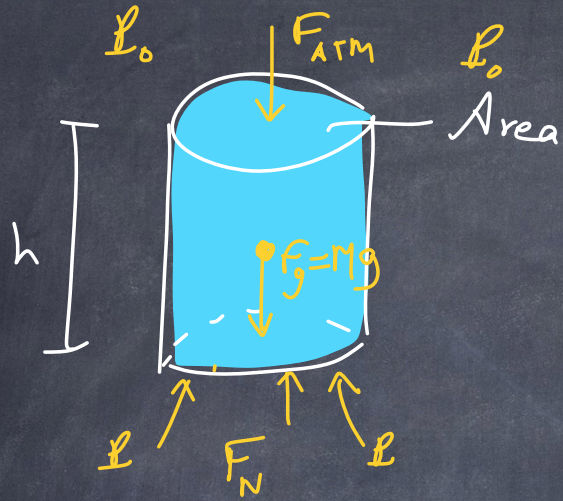
# PHY 117 HS2023

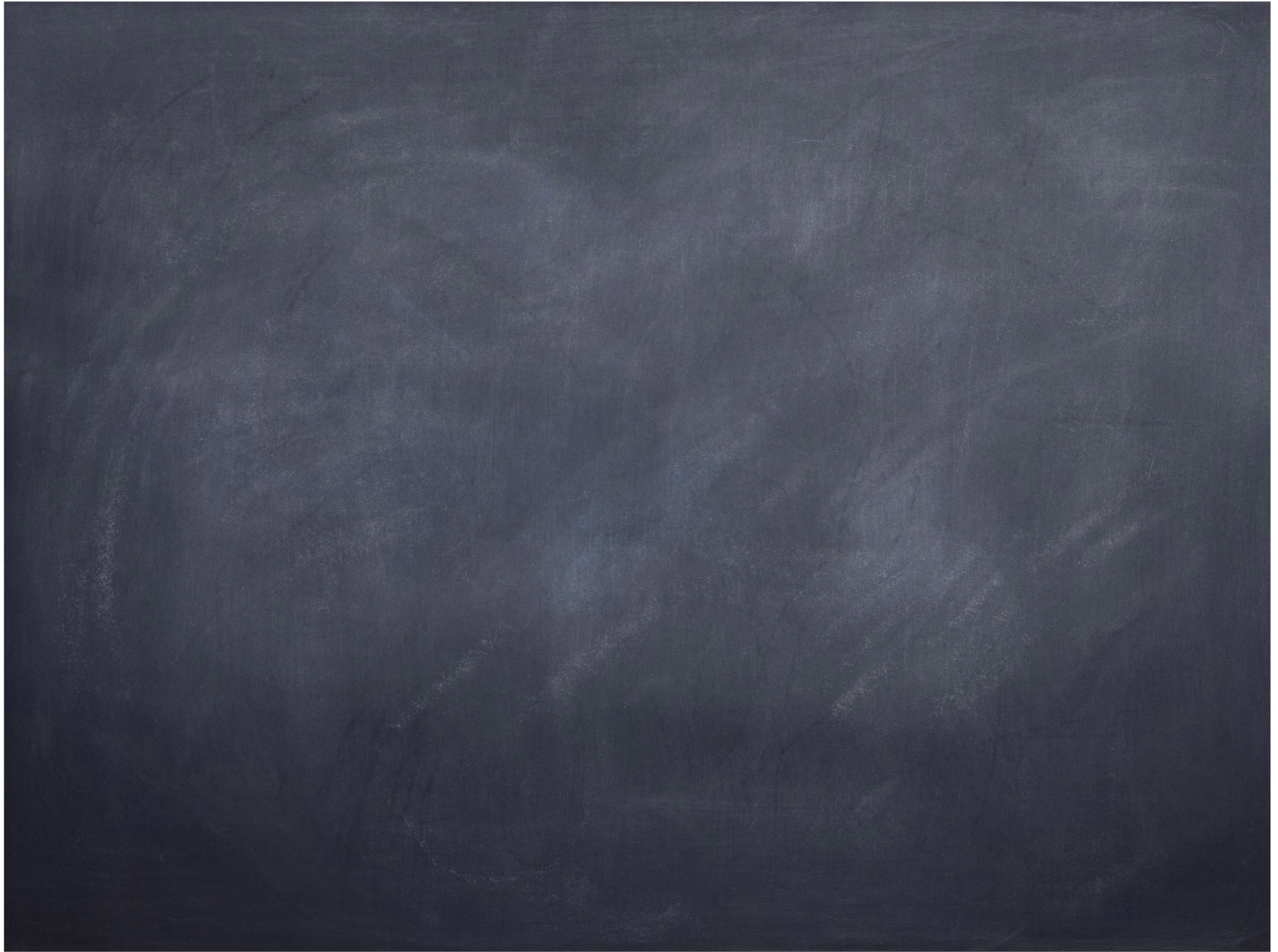
Week 5, Lecture 1

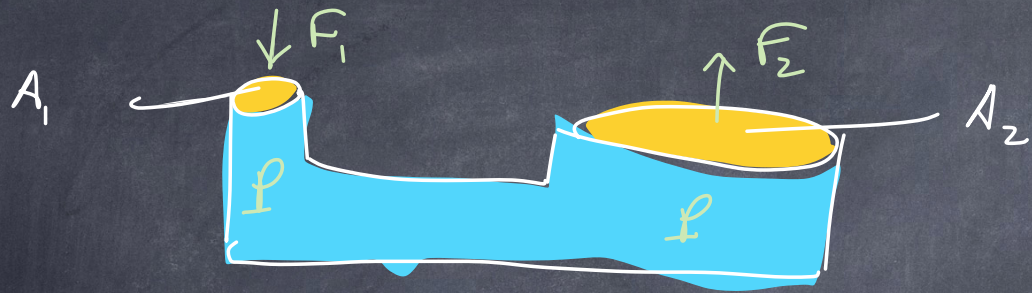
Oct. 17th, 2023

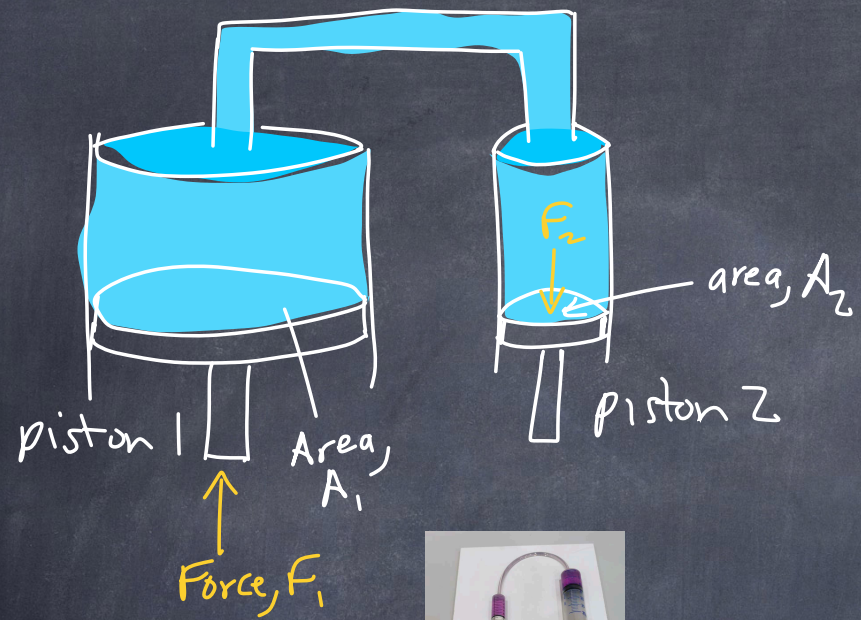
Prof. Ben Kilminster

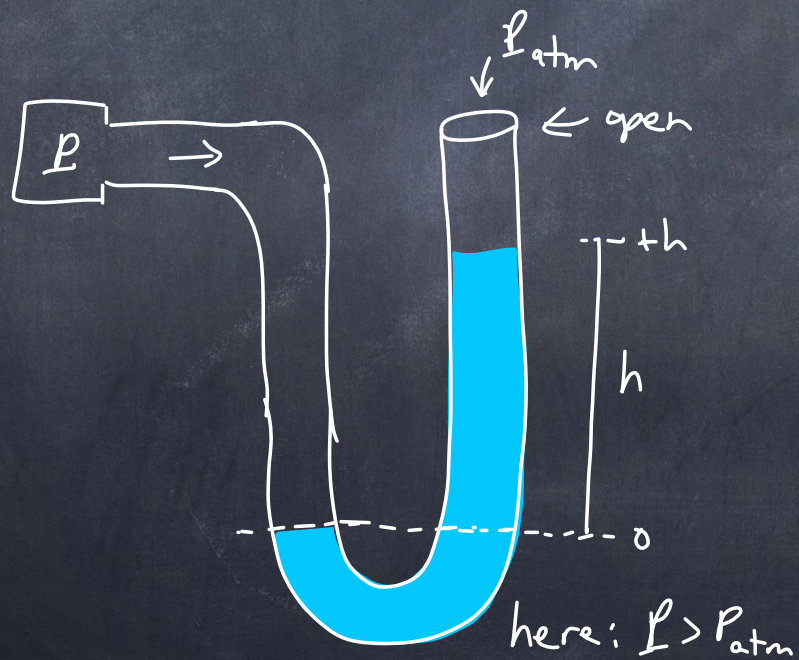
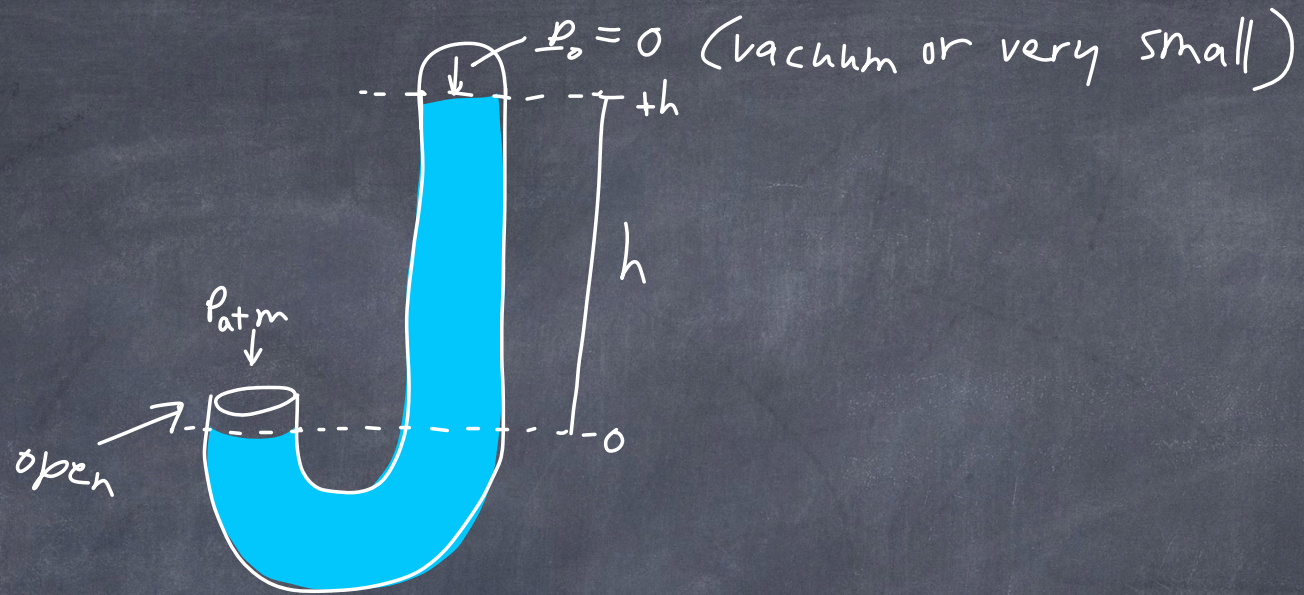
What is the pressure in a fluid?

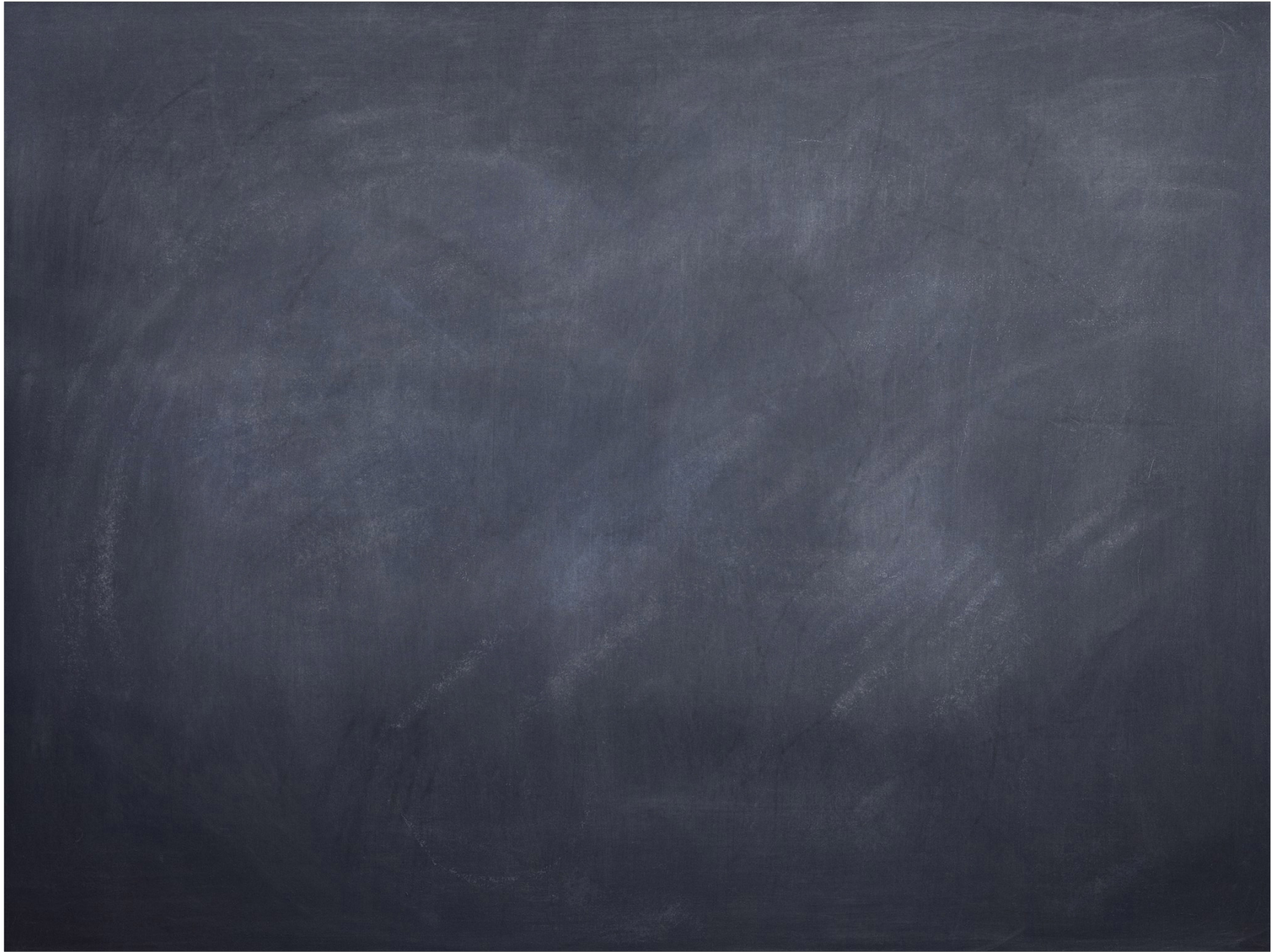


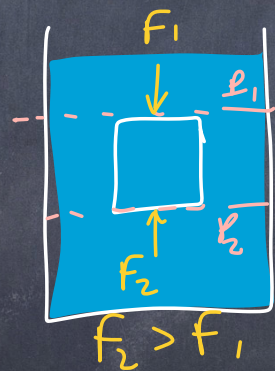
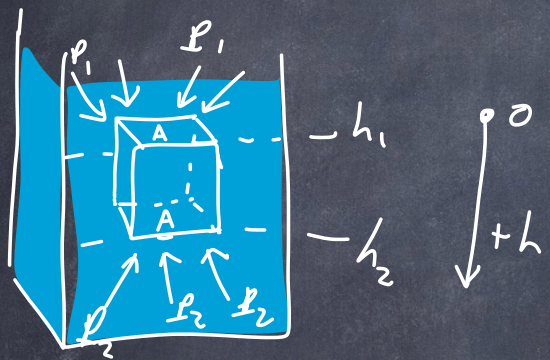






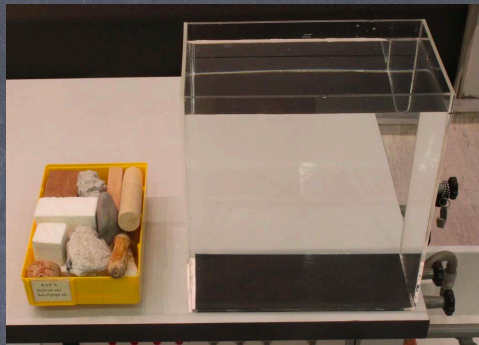
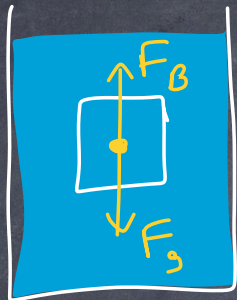






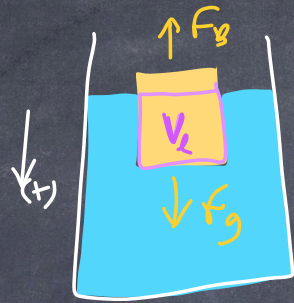


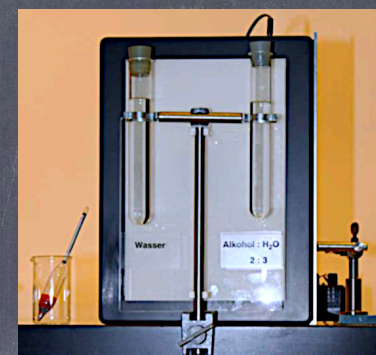
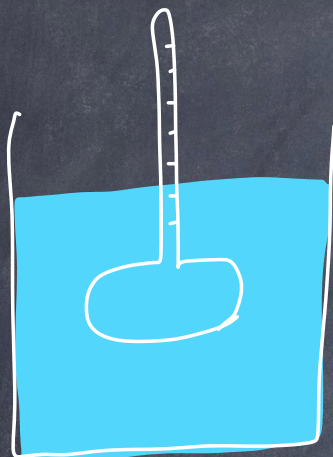
↓  
(+)



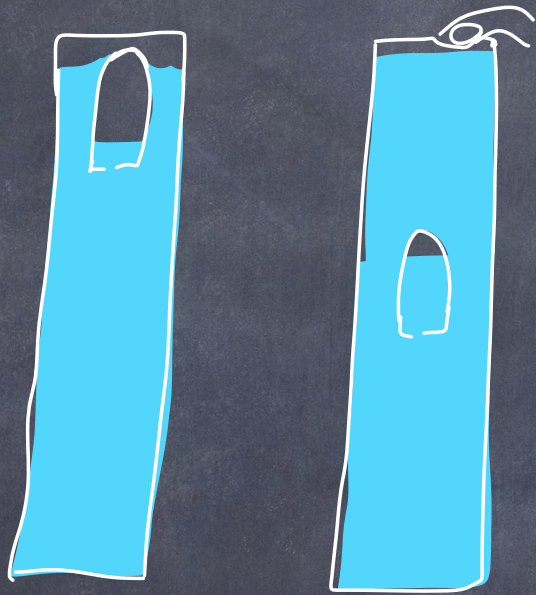
How much of object is submerged?

Partially  
Submerged  
object



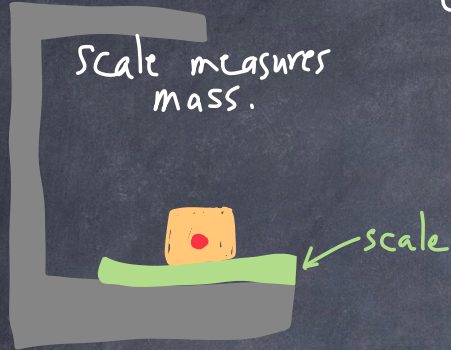


# Cartesian diver

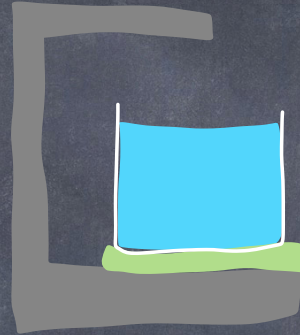


How to measure density of object,  $\rho_{obj}$  ?

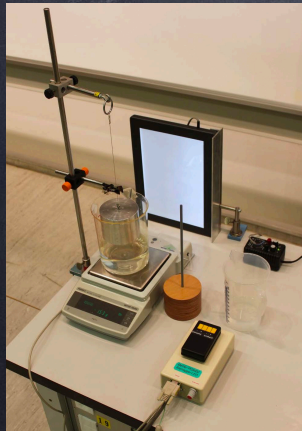
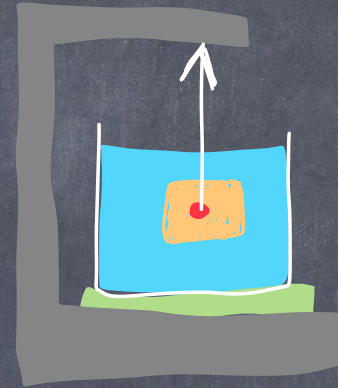
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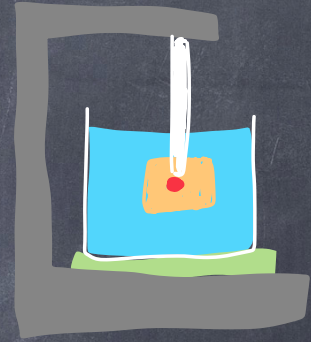
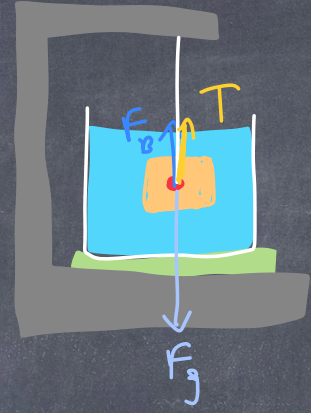


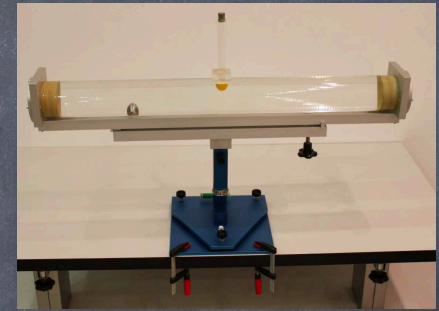
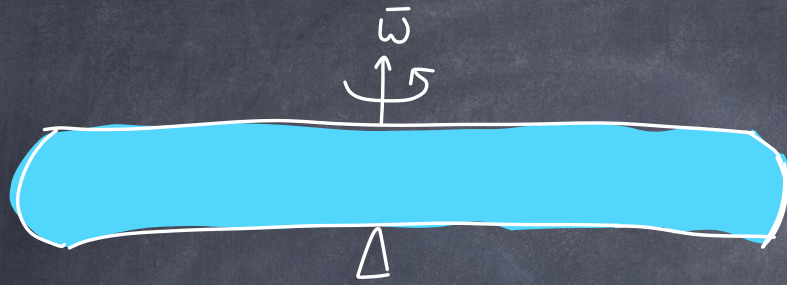
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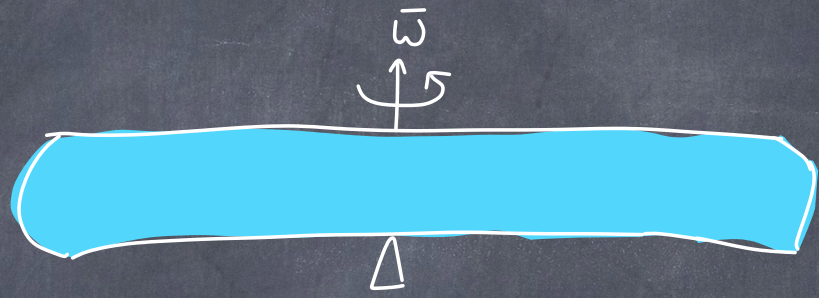
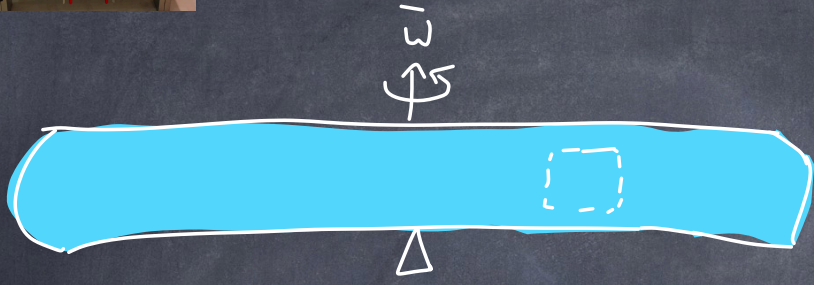
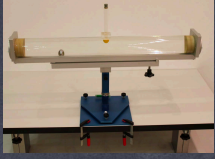


③





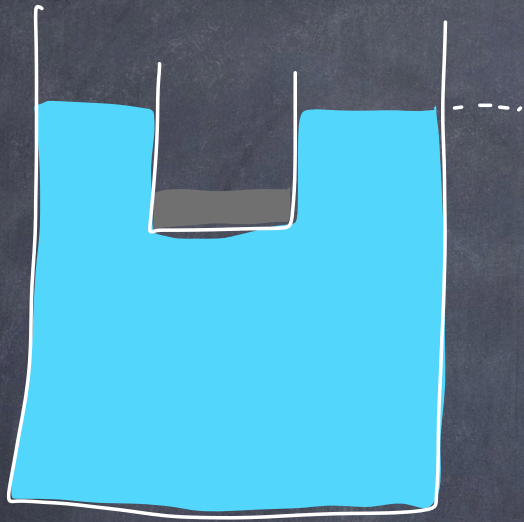




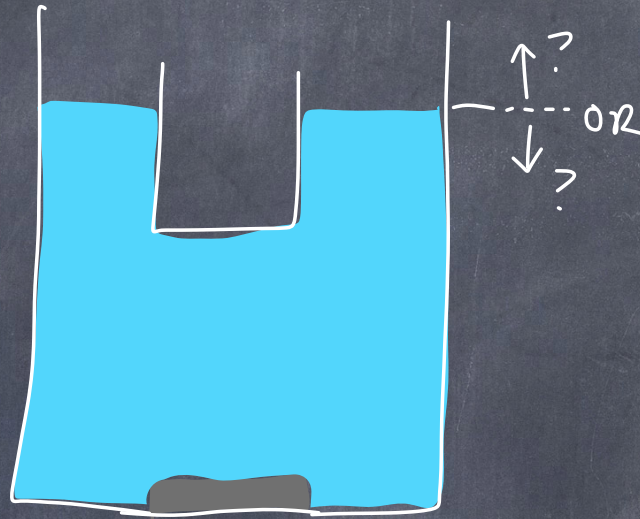




Man overboard!



water  
level



Goes down!

End

