# Problem Set #1

## Due Wednesday, September 21 by 5pm to Dickinson 104

*Unless otherwise indicated, all problems come from "Essentials of College Physics"*
*Make sure to clearly state all assumptions you make and to **show your work**.*

*Note: On this problem set (and future problem sets), I will use the following notation:*
*[Chapter].[Problem #]*
*So, the first problem assigned this week is Problem #20 in Chapter 1.*

***Note: Unless explicitly stated, assume that all described experiments/events happen on Earth and that you can neglect air resistance.***

1. Problem 1.20 (*Hint: It's easier if you do the unit conversions before calculating the volume*)
2. Problem 1.34
3. *Conceptual Question* 2.6
4. Problem 2.18
5. Problem 2.44
6. Problem 2.46
7. Problem 2.47
8. Problem 2.51

Individual Problem: Problem 2.39