Monday, October 25/13
Physics 112/111

Midterm - Tentatively: Wed., Nov. 20

Return - Test: Unit 1

1. Practice Problems (PP) - Page 144: 5-7
   Worksheet: C4 - Extra Practice - Weight and Friction

2. Text: Page 163, PP #1-3
   Handout: Problems - Newton's Second law
   Text - Page 168 #4-7

3. Worksheet - C4 and C5 Problems] HW.

4. Terminal Velocity

5. Multiple Masses: Atwood's Machine - Continue Tomorrow

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6. Practice Problems - Page 485, #19-21

Terminal Velocity

(These notes are not on the Weebly site.)

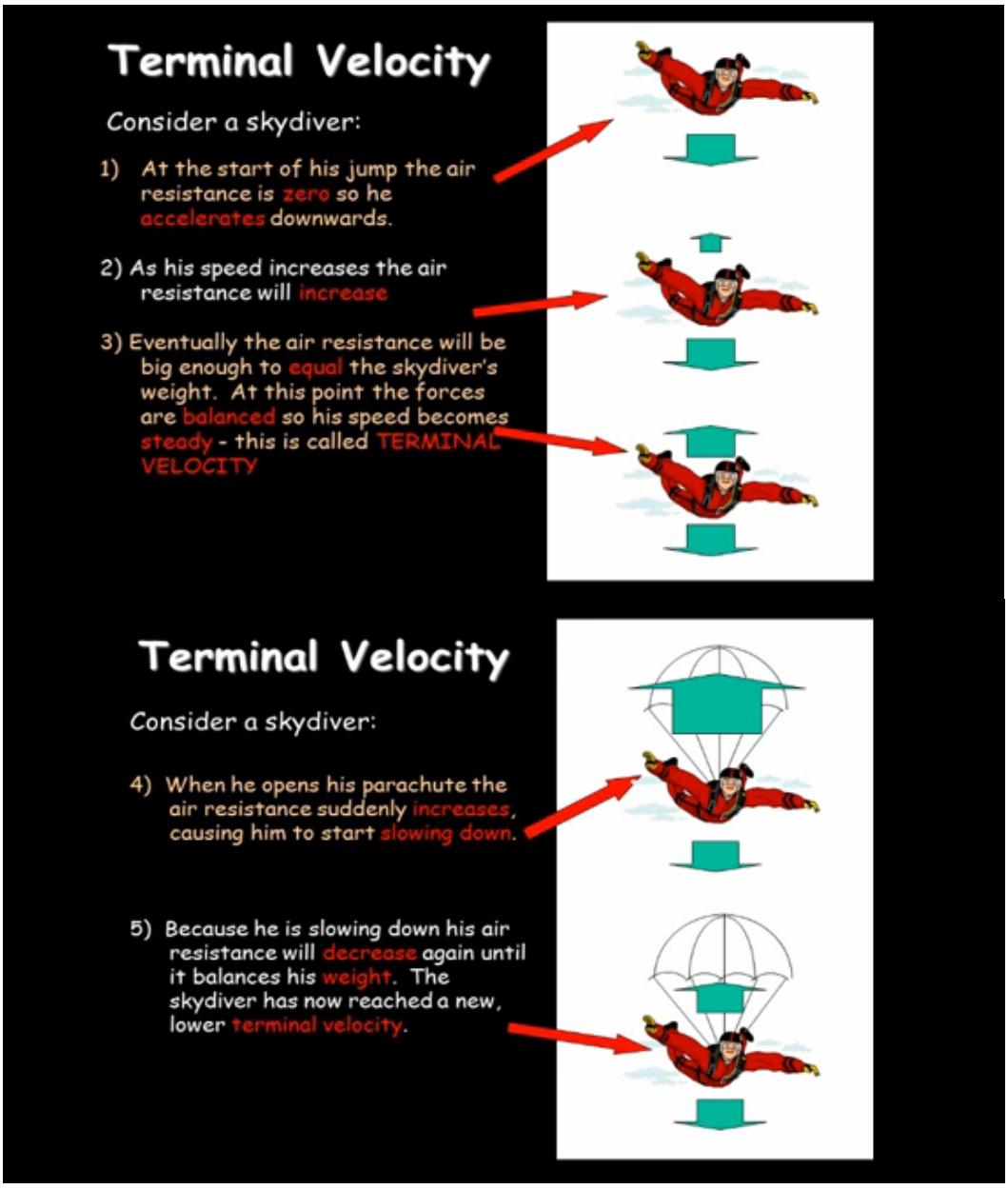
When an object moves through a fluid such as air, the force of friction increases as the velocity of the object increases.

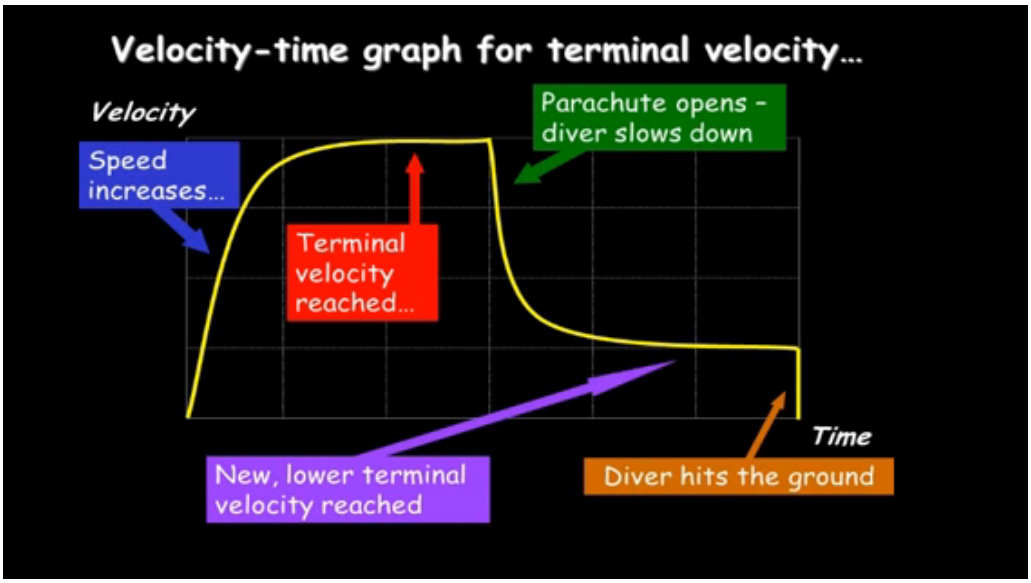
A falling object eventually reaches a velocity at which the force of friction is equal to the force of gravity.

$$F_f = W$$

At that point, the net force acting on the object is zero and it no longer accelerates but maintains a constant velocity called terminal velocity. The shape and orientation of an object affects its terminal velocity.

http://www.youtube.com/watch?v=V_wnJ84AFmI&list=TLC5sJmccsM-tav8A6DSsTB_o4s4H_plzJ





http://www.youtube.com/watch?v=ur40O6nQHsw

http://www.youtube.com/watch?v=HrqXTHCGVEo