Name: _____   Period: _____

Chapter 7 Syllabus –Applications of Definite Integrals

- Do all of your homework problems….Make sure you TRY all of them!
- Check all of your answers.
- After you have checked your answers, ASK questions on the problems you can't figure out.
- BEFORE test get any additional help needed on concepts not mastered.

NP = Not Proficient   **P = Proficient**   **M = Mastery**

Section	Learning Target	Homework Questions	Self-Evaluation		
7-1	Given a differential equation, I can use integration to find a net change in a real world situation. Given a differential equation and a starting value, I can use integration to find a the ending value in a real world situation.	pg 386 #10-16, 19-22, 31-36	NP	P	M
7-2	I can find the area between two curve (integrating with respect to both x and y).	pg 395 # 1-10, 13, 18, 20, 24, 28, 35, 37, 39, 50-55	NP	P	M
7-3 day 1	I find the volume of a sold that has been rotated around an axis using the disc method.	pg 406 # 7-14, 21-24	NP	P	M
7-3 day 2	I find the volume of a sold that has been rotated around an axis using the washer method.	pg 406 # 15-20, 25	NP	P	M
7-3 day 3	I find the volume of a sold that has been rotated around an axis using the cylindrical shells method.	pg 406 # 26-28, 31-38, 45, 46	NP	P	M
7-3 day 4	I find the volume of a sold that has been using the cross sections on base method.	406 # 1-6, 39-42, 63-68	NP	P	M
Review	I can do AP Free Response Questions of the form: 1.) Integral as a net change (applications) problems 2.) Area and Volume problems	pg 430 #2, 3, 5, 7, 11, 15-21, 24, 25, 45, 47, 53, 55	NP	P	M