AP PHYSICS: UNIT 2 - NEWTON'S LAWS

MR. DARLINGTON

Topic (Percent of AP Exam)	*Reading*	*HW Problems*	
4. NEWTON'S LAWS OF MOTION: STATICS AND DYNAMICS (9%)		***Chapter 4***	
4.1 Force	**4.1**	**page 98**	
*Definition of force		**6**	
4.2 Newton's First Law of Motion	**4.2**	**8**	
*Contrast Aristotle's and Galileo's views of motion		**9**	
*Statement of Newton's first law of motion		**12**	
*Definition of inertia		**page 99**	
4.3 Mass	**4.3**	**16**	
*Definition of mass and standard units of mass		**25**	
4.4 Newton's Second Law of Motion	**4.4**	**page 100**	
*Statement and equation of Newton's second law of motion		**26**	**2 WEEKS**
4.5 Newton's Third Law of Motion		**29**	
*Statement of Newton's third law of motion		**page 101**	
*Examples of this law		**34**	
4.6 Weight - The Force of Gravity and The Normal Force		**page 102**	
*Calculation of weight using the acceleration due to gravity		**48**	
*Discuss the value of g near the surface of the earth		**50**	
*Definition and discussion of the normal force		**51**	
4.8 Applications Involving Friction, Inclines		**52**	
*Definition of kinetic friction and its relationship to the normal force between surfaces		**53**	
*Definition of static friction			
*Coefficients of static and kinetic friction			
*Normal and frictional forces on an inclined plane			

NEWTON'S LAW'S EXAM AND PROBLEM SET DUE DATE: FRIDAY, OCTOBER 12, 2007