PHYSICS SEMESTER PLAN: 1ST Semester

	week 1	week 2 Date / /	week 3	week 4
Topics	Date / / • kinematics in 1D • speed • reference frames	Date / / coordinate systems velocity acceleration, falling bodies	Date / / • kinematics in 2D • vectors • vector addition • multiplication of a vector by a scalar	Date / / methods for adding vectors relative velocity projectile motion.
Standards	physics: 1a-f	physics: 1b,c,l; 2c	physics: 1j	physics: 1i, 1j
Lecture Notes	1.1.1 - 1.2.5	1.2.6 - 1.3.6	2.1.1 - 2.2.3	2.2.3 - 2.4.7
Readings	Chap. 1 Sections 1 - 7	Chapter 1 Sections 8-11	Chap. 2 Sections 1 - 5	Chapter 2 Sections 6-10
Homework	Chapter 1 #1,3,4,7,10,11,14	Chapter 1 #15 -17, 19-23	Chapter 2 #3,9,10,11,12	Chapter 2 #13-20, 24-34, 39
Labs & Projects		 Lab Handout Reaction Time water bottle rocket project design specs 	• Lab book 2.1 Kinematics	 Lab book 2.4 Projectiles water bottle rocket project contest
AV, Internet	Video of last years rocket contest (10min)	Nat. Geographic Special on Dr. Robert Goddard (10 min excerpt)	Physical Science laser disc: vectors (15 min)	www.nasa.gov
Demos	Demo Redstone compressed air rocket (day 1)	Acceleration (Cunningham & Herr 2.3)	Accelerometer (Cunningham & Herr 3.1)	
Special		Guest speaker: Dr. Tom Johnson, JPL rocket engineer		Remind students of JPL open house this Saturday
Tests		Ch. 1 quiz		Ch. 1-2 unit test
Points	Homework: 30	Quiz: 25 Homework: 30 Lab: 50	Homework: 30 Lab: 50	Test: 100 Homework: 30 Project: 50