

## PHYSICS – UNIT 8 SYLLABUS

<b>WORK &amp; ENERGY</b>			
Readings: § 6.1 - 6.9 pp. 154-179 and § 10.1,10.3 pp. 274-277, 282-285			
Date	Lesson	Handouts	Assignments Due
3/26	Return and go over Test Discussion – <b>Work</b> , Negative Work, Work done when force is at an angle, Problem – Working to Build a Pyramid!		Lab – Road Rally
3/29	Work done by a changing force <b>Power</b> : The rate of doing work... <i>Activity - Horsepower of a toy truck</i>	Activity - Horsepower of a toy truck	
3/30	<b>Simple Machines</b> Discussion – <b>Efficiency and Mechanical Advantage</b> Activity – Efficiency of a Ramp	Activity – Efficiency of a ramp	Activity - Horsepower of a toy truck
3/31	Activity – Finding Efficiency and MA of a Pulley System	Activity – Finding Efficiency and MA of a Pulley System	Activity – Efficiency of a ramp <b>Section Outlines</b>
4/1	Discussion – Kinds of Energy <b>Quiz – Work and Power</b> IP2005 Activity 8.1-8.5		
4/12	The <b>LAW OF CONSERVATION OF ENERGY</b> Examples of Cons. Of Energy problems Activity – Energy of a Pendulum	Activity – Energy of a Pendulum	Activity – Finding Efficiency and MA of a Pulley System IP2005 Activity 8.1-8.5
4/13	Discussion – non-conservative forces, <b>THE WORK-ENERGY THEOREM</b> Examples - Solving Work-Energy Problems Activity - Three Situations	Activity - Three Situations	Activity – Energy of a Pendulum Read Lab Conservation of Energy
4/14	<i>Lab – Conservation of Energy</i>	Lab - Conservation of Energy	Activity - Three Situations
4/15	Finish lab calcs (using MS Excel) Group Problem: Two Tracks... <b>Quiz – Energy Conservation Solve</b> <i>Homework Set problems</i>	Lab – Conservation of Energy (rubric)	
4/16	Check Homework Sets Review for Test		<b>Homework Sets due</b>
4/19	<b>TEST – Work &amp; Energy</b>		<i>Labs due next school day</i>