

PHYSICS – UNIT 10 SYLLABUS

SPECIAL RELATIVITY			
Readings Cutnell & Johnson		§ 28.1 - 28.7	pp. 865-887
Date	Lesson	Handouts	Assignments Due
5/3	Video – <i>The Michelson Morley Experiment</i> Discussion: <i>relativity Intro</i>	Homework Set – Relativity Syllabus – Relativity	Lab – Momentum
5/4	Video – The Lorentz Contraction Einstein's Two Postulates Consequences...Simultaneity, Time Dilation, and other <i>Gedanken experiemnts</i>		
5/5	More consequences: Length Contraction, Mass Increase The Gamma factor	Gamma Chart	Section Outlines
5/6	The <i>Twin Paradox</i> Space and Time Travel Possible?!? Relativistic Velocity Addition		Gamma Chart
5/10	Quiz 1– Relativity Internet Workshop – The Expanding Universe	Web Activity – Expanding Universe	
5/11	Video - Relativistic Energy and Momentum Discussion: <i>Relativistic Energy and Momentum</i>		Web Activity – Expanding Universe
5/12	Quiz 2 – Relativity <i>Activity – Determining the Age of the Universe</i>	Activity – Age of the Universe	
5/13	Go over Activity Finish all videos Quiz 3 – Relativity		Activity – Age of the Universe
5/14	Go over Quiz 3 Correct Homework Sets		Homework Set
5/17	TEST – Relativity		