

Physics Unit D Outline – Conservation Laws (Day 1 Sections)

<i>Day</i>	<i>Content/Topic</i>	<i>Reading</i>	<i>Assignment</i>
1 (Feb8)	Mechanical Energy Problem Solving procedure Applications of Mechanical Energy	11.2	Exercise D1 Ch11: #15 – 18, 22, 27, 28, 73 – 75, 80, 81, 84, 85
Feb 10 (PACT)	Quiz C2 - Gravitation		
2 (Feb12)	Mechanical energy conservation Lab D5 – ME of Pendulum	11.2	Conservation of Mechanical Energy Investigation Evidence, Analysis, Evaluation
3 (Feb16)	Forces in Explosions and Collisions – Impulse Video “Collisions”	9.1	Exercise D2 Ch 9: #1 – 5, 34, 56,
4 (Feb18)	Quiz D1 - EM Momentum and Impulse Physics of safety and sports		Ch 9: #6 – 10, 12, 33, 36, 43, 46 – 48, 57, 58, 61, 64, 68, 70, 72 POW: Airbags or Ch9 #93, 94
5 (Feb22)	Conservation of Momentum and Newton’s 3 rd Law Types of collisions	9.2 Handout	Ch 9: #38, 39, 40, 53 – 55, 73, 75, 77, 78, 80, 82
6 (Feb24) PACT	Conservation of Momentum and Newton’s 3 rd Law continued Types of collisions Lab D2 – Video analysis to determine the speed of a bullet	9.2 Handout	Lab D2 Analysis Continue with Day 5 assignment
7 (Feb26)	Conservation of Momentum in 2D Using vector diagrams and trigonometry	9.2	Exercise D3 Ch 9: #79 Portfolio D1 due
Mar 1	No School		
8 (Mar3)	Quiz D2 – Momentum/Impulse Conservation of Momentum in 2D Continued	9.2	Continue with Day 7 assignment
9 (Mar5)	Analyzing Elastic and Inelastic Collisions (KE) Lab D3 – Analyzing collisions	9.2 11.2 p. 262	Exercise D4 Ch 11: #78 Lab Analysis
10 (Mar9)	Lab D3 -continued		Analysis and evaluation; Exercise D4 Ch 11: #78
11 (Mar11)	Quiz D3 (Conservation Mom, types collisions) Impulse Activity		
12 (Mar15)	Review/flex period		Portfolio D2 due
13 (Mar17)	Exam D		