

Study Guide for Quiz 4

Chapter 6

Concepts: Work, Kinetic Energy, Work-Kinetic Energy Theorem, Gravitational and Elastic Potential Energy, Hooke's Law, Conservation of Mech Energy, Conservative and Non-Conservative forces, Power, Work done by a Variable Force, Concepts and Diagrams on website.

Examples: 1, 2, 5, 7, 8, 9, 13, 16

Focus on Concepts: 17, 18, 19, 22, 27

Basic Problems: 1, 2, 3, 4, 6, 13, 14, 17, 29, 32, 36, 37, 38, 40, 46, 52, 53, 54, 63, 64, 65, 76, 78, 80, 82

Medium Problems: 8, 9, 34, 35, 39, 44, 45, 48, 57, p101 on Website (set-up)

Chapter 7

Concepts: Momentum, Conservation of Momentum, Impulse, Elastic and Inelastic Collisions in 1-D

Examples: 1, 2, 4, 5, 6, 7, 8

Basic Problems: 1, 2, 4, 5, 6, 16, 17, 19, 28

Medium Problems: 8, 12, 21, 23, 24, 25, 30, 31, 42, 55