

Physics 113 -Evening
Homework Assignments
 Summer 2009

Due Date	P.S.#	Ch.	Sections	Underlined problems are to be turned in on due date
June 1	1	2	For Thought	<u>3, 4, 11, 12</u>
(Monday)			2-1 Average Motion: Distance, time, speed, velocity	17
			2-2 Instantaneous velocity	<u>23, 51</u>
			2-3 Acceleration	<u>25, 28</u>
			2-4 Constant Acceleration	<u>31, 32, 35, 38, 61, 73, 82</u>
			2-5 The Constant Acceleration of Gravity	<u>40, 42, 69</u>
		3	For Thought	<u>12, 15, 16</u>
			3-1 Vectors	<u>24, 48, 49, 50, 58</u>
			3-2 Velocity and Acceleration Vectors	<u>29, 31, 52</u>
June 8	2		3-3 Relative Motion	<u>34, 35, 56</u>
(Monday)			3-4 Constant Acceleration	<u>60</u>
			3-5 Projectile Motion	<u>61, 66, 73, 76, 78</u>
			3-6 Uniform Circular Motion	<u>45, 47</u>
		4	For Thought	<u>2, 9, 11</u>
			4-2 Newton's First and Second Laws	<u>16, 17</u>
			4-4 Mass and Weight: The Force of Gravity	<u>24, 26</u>
			4-5 Using Newton's Second Law: Adding Forces	<u>31, 41, 70</u>
			4-6 Newton's Third Law	<u>34, 38, 45, 47, 51, 53, 66</u>
		5	For Thought	<u>3, 8, 9</u>
			5-1 Using Newton's Second Law	<u>33, 34, 35, 36</u>
			5-2 Multiple Objects	<u>19, 20</u>
			5-3 Circular Motion	<u>25, 27, 37, 41, 56, 62</u>
			5-4 Friction	<u>28, 30, 42, 46, 49, 51</u>
			Problems (Drag Forces)	65
June 15	3	6	For Thought	<u>4, 5, 8</u>
(Monday)			6-1 Work and the Scalar Product	<u>20, 21, 80, 43</u>
			6-2 Varying Forces	<u>22, 51, 77</u>
			6-3 Kinetic Energy	<u>28, 81</u>
			6-4 Power	<u>38, 40, 67, 70</u>
		7	For Thought	<u>3, 10</u>
			7-1 Conservative and Non-conservative Forces	<u>11, 12</u>
			7-2 Potential Energy	<u>34, 38</u>
			7-3 Conservation of Mechanical Energy	<u>45, 43, 59, 61, 64, 65</u>
			7-4 Potential Energy Curve	<u>25, 27</u>
			Problems (Non-conservative Forces)	55
June 22	4	9	For Thought	<u>1, 4, 6</u>
(Monday)			9-1 Center of Mass	<u>13, 37, 39</u>

			9-2 Momentum	<u>41, 43, 48, 52</u>
			9-3 Kinetic Energy in Many-Particle Systems	24
			9-5 Inelastic Collisions	26, <u>28</u> , 29, <u>57, 67</u>
			9-6 Elastic Collisions	31, <u>33</u> , 61, 62, <u>65, 71</u>
			Problems (impulse, neither elastic nor inelastic)	55, 70
June 29	5	10	For Thought	<u>8, 13</u>
(Monday)			10-1 Angular Velocity and Acceleration	18, 47
			10-2 Torque	22, 25
			10-3 Rotational Inertia and the Analog of Newton's Law	28, 34, <u>57, 58, 65</u>
			10-4 Rotational Energy	35, <u>37</u>
			10-5 Rolling Motion	62, <u>64, 68</u>
July 6	6	12	For Thought	<u>5, 10</u>
(Monday)			12-1 Conditions for Equilibrium	<u>16, 17</u>
			12-2 Center of Gravity	21
			12-3 Examples of Static Equilibrium	<u>22, 28, 29, 40, 57, 61</u>
			12-4 Stability	25