

# August

WEEK	Tuesday	Thursday
<b>1</b>	<p><b>21</b> Introduction; Force Concept Inventory; motion diagrams</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: Preface to the Student; Introduction; Part I overview; § 1.1 – 1.6</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 1: 1, 3, 5, 6, 8, 10, 11, 15, 18, 20, 21, 24, 26, 27, 29, 33</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 1: 4, 7</li> <li>• SPIRAL 1.1: all</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 1: 13, 14, 15, 16</li> </ul>	<p><b>23</b> Motion diagrams (cont'd); units and significant figures; <u>Experiment 1: Investigating Motion 1: Position and Velocity</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 1.7 – 1.9</li> <li>• SPIRAL 1.3: motion worksheets (introduction)</li> <li>• Lab: <u>Experiment 1</u>, Lab Note C</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 1: 35, 37, 38, 40, 41</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 1: 21, 23, 27, 29, 31, 39*, 45, 51</li> <li>• SPIRAL 1.2: all; 1.3*: 1, 3, 5, 7, 8, 11, 13</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 1: 24, 26, 28, 33, 35*, 37*, 42*, 43*, 44*, 52</li> <li>• SPIRAL 1.3*: 2, 4, 6, 9, 10, 12, 14</li> </ul>
<b>2</b>	<p><b>28</b> Interpreting motion graphs; kinematic concepts; <u>Experiment 1</u> (finish)</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 2.1 – 2.4</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 2: 1, 3, 5, 8, 11, 12, 14, 15, 16</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 2: 1, 3, 9, 11, 13, 17, 29</li> <li>• SPIRAL 2.1: 1, 4</li> <li>• SPIRAL 2.2: 1, 2, 9, 10</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 2: 7, 15a &amp; c, 37</li> <li>• SPIRAL 2.1: 2, 3</li> <li>• SPIRAL 2.2: 3, 4, 5, 6, 7, 8</li> </ul>	<p><b>30</b> <b>TEST 1 (Chapter 1)</b>  Solving kinematic problems; <u>Experiment 2: Investigating Motion 2: Velocity and Acceleration</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 2.5 – 2.6, 2.8</li> <li>• Lab: <u>Experiment 2</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 2: 18, 19, 20, 21, 23, 24, 28</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 2: 25, 31, 53, 55, 73</li> <li>• SPIRAL 2.3: 1, 3, 5, 7, 8, 11, 13</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 2: 29, 49, 57, 60, 63, 66, 77, 79, 83</li> <li>• SPIRAL 2.3: 2, 4, 6, 9, 10, 12, 14</li> </ul>

# 2007

# September

WEEK	Tuesday	Thursday
3	<p><b>4</b> Vectors; <u>Experiment 2</u> (finish)</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 3.1 – 3.3</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 3: 1, 3, 6, 7, 8, 9, 11, 13, 16, 19, 24</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 3: 2, 5, 7, 9, 23a &amp; b, 29</li> <li>• SPIRAL 3: all</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 3: 3, 4, 8, 11</li> </ul>	<p><b>6</b> Vector algebra; <u>Experiment 3: Vector Forces</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 3.4</li> <li>• Lab: <u>Experiment 3</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 3: 27, 29, 31, 33, 34, 36</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 3: 13, 17, 21, 25, 37, 39, 47</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 3: 15, 19, 23c, 24, 31, 33, 35, 41, 45, 49</li> </ul>
4	<p><b>11</b> <b>TEST 2 (Chapters 2-3)</b>  Force and motion; <u>Experiment 3</u>: (finish)</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 4.1 – 4.6</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 4: 2, 3, 4, 6, 7, 8, 9, 11, 14, 17, 18, 19, 20, 21, 22, 23</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 4: 2, 3, 5, 9, 13, 14, 23, 25, 27, 29</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 4: 1, 4, 6, 7, 10, 11, 12, 22, 24, 26, 28</li> </ul>	<p><b>13</b> Free-body diagrams; <u>Experiment 4: Modeling Motion</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 4.7</li> <li>• Lab: <u>Experiment 4</u>; Lab Note D</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 4: 25, 26, 27, 28, 29</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 4: 17, 21, 31, 35, 37, 39, 45, 49</li> <li>• SPIRAL 4.1: all</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 4: 15, 18, 19, 20, 30, 32, 33, 34, 36, 38, 40, 41, 43, 44, 46, 47</li> </ul>

# 2007

# September

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5	<p><b>18</b> Equilibrium; Newton's second law; <u>Experiment 5: Force and Motion</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 5.1 – 5.3</li> <li>• Lab: <u>Experiment 5</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 5: 1, 2, 4, 5, 6, 7, 9, 11, 14, 16, 17, 19, 21, 23, 25</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 5: 1, 5, 7, 9, 11, 13, 27, 29, 31, 33, 57</li> <li>• SPIRAL 4.2: 1, 2</li> <li>• SPIRAL 5: 3, 4, 6, 7</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 5: 2, 3, 4, 6, 8, 10, 12, 14, 25, 37</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 5: 70</li> <li>• SPIRAL 5: 1, 2, 5, 8</li> </ul>	<p><b>20</b> Friction and drag; examples of Newton's second law; <u>Experiment 5: (finish)</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 5.4 – 5.6</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 5: 27, 28, 29, 30, 31</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 5: 17, 21, 39, 41, 49, 63</li> <li>• SPIRAL 5: 13, 16, 19, 23, 26, 28</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 5: 15, 19, 23, 35, 45, 47, 51, 53, 65</li> <li>• SPIRAL 5: 14, 15, 17, 18, 20, 21, 22, 24, 25, 27, 29, 30</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 5: 73</li> </ul>
6	<p><b>25</b> Motion in a plane; projectile motion; <u>Experiment 6: Motion With Non-constant Acceleration – Numerical Methods</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 6.1 – 6.3</li> <li>• Lab: <u>Experiment 6</u>; Lab Note E</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 6: 1, 2, 4, 5, 6, 7, 9, 11, 12, 13, 14</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 6: 1, 3, 5, 7, 11, 21, 23, 27, 35, 37</li> <li>• SPIRAL 6: 3, 4, 5, 6</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 6: 2, 9, 12, 26, 29, 31, 36, 38, 40, 47</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• SPIRAL 6: 7, 8</li> </ul>	<p><b>27</b> <b>TEST 3 (Chapters 4-5)</b>          Projectile motion (cont'd); relative velocity; <u>Experiment 6 (finish)</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 6.4</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 6: 15, 16, 17, 19, 20</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 6: 13, 17, 23, 33, 41, 43, 53, 61</li> <li>• SPIRAL 6: 9, 10, 12, 13, 15</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 6: 15, 16, 34, 39, 55, 57</li> <li>• SPIRAL 6: 11, 14</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 6: 67, 69</li> </ul>

# 2007

# October

WEEK	Tuesday	Thursday
7	<p><b>2</b> Relative velocity (cont'd); motion in a circle; <u>Experiment 7: Motion in Two Dimensions</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 7.1 – 7.2</li> <li>• Lab: <u>Experiment 7</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 7: 1, 2, 3, 5</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 7: 3, 5, 7, 9</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 7: 1, 2, 4, 6, 8, 10</li> </ul>	<p><b>4</b> Dynamics of circular motion; <u>Experiment 7</u> (finish)</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 7.3</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 7: 7, 8, 9, 10, 11</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 7: 11, 17, 31, 37</li> <li>• SPIRAL 7: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 7: 33, 35, 39, 45, 42, 47, 50</li> <li>• SPIRAL 7: 12</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 7: 60, 63, 64, 65</li> </ul>
8	<p><b>9</b> Orbit; fictitious forces and apparent weight; <u>Experiment 8: Dynamics of Circular Motion</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 7.4 – 7.6</li> <li>• Lab: <u>Experiment 8</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 7: 16, 18, 19, 21</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 7: 19, 31</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 7: 20, 30</li> </ul>	<p><b>11</b> Newton's third law; <u>Experiment 8</u> (finish)</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 8.1 – 8.3</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 8: 1, 2, 4, 5, 7, 9, 10, 11, 12, 15, 17, 18, 20</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 8: 1, 3, 6, 9, 25</li> <li>• SPIRAL 8.1: all (identify all action-reaction pairs)</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 8: 5, 7, 8, 10, 21</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 8: 48, 49</li> </ul>

# 2007

# October

WEEK	Tuesday	Thursday
9	<p><b>16</b> <b>TEST 4 (Chapters 6-7)</b> Ropes and pulleys; interacting systems; problem session</p> <p><b>BEFORE CLASS:</b> <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 8.4 – 8.5</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 8: 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 34</li> </ul> <p><b>AFTER CLASS:</b> <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 8: 11, 15, 35, 41</li> <li>• SPIRAL 8.2: 1, 2, 3, 4, 5, 6, 8, 10, 15, 17, 20, 21</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 8: 20, 23, 26, 27, 31, 32, 34, 36, 38, 39, 42, 44, 45</li> <li>• SPIRAL 8.2: 7, 9, 11, 14, 16, 18, 19</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 8: 50</li> </ul>	<p><b>18</b> Momentum and impulse; <u>Experiment 9: Impulse and Momentum</u></p> <p><b>BEFORE CLASS:</b> <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 9.1 – 9.2</li> <li>• Lab: <u>Experiment 9</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 9: 1, 3, 4, 6, 8, 9, 10, 12, 13</li> </ul> <p><b>AFTER CLASS:</b> <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 9: 1, 5, 7, 11, 26, 27, 29, 31</li> <li>• SPIRAL 9: 1, 3</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 9: 2, 3, 6, 8, 10, 28</li> <li>• SPIRAL 9: 2, 4</li> </ul>
10	<p><b>23</b></p> <p>CLASSES CANCELLED DUE TO FIRES</p>	<p><b>25</b></p> <p>CLASSES CANCELLED DUE TO FIRES</p>

# 2007

# Oct / Nov

<i>WEEK</i>	<i>Tuesday</i>	<i>Thursday</i>
<b>11</b>	<p><b>30</b> Conservation of momentum; collisions and explosions; Momentum in two dimensions; <u>Experiment 9 (cont'd)</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 9.3 – 9.5; (§ 9.6)</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 9: 14, 16, 17, 19, 20; (21, 23)</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 9: 13, 15, 19, 33, 35, 39, 43, 51; (37, 55)</li> <li>• SPIRAL 9: 5, 8, 9, 10, 11, 12, 13, 16, 18, 19, 23; (25, 26, 27, 28)</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 9: 14, 32, 38, 40, 41, 42, 49, 53; (36, 56, 57)</li> <li>• SPIRAL 9: 6, 7, 17, 20, 21, 22, 24</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 9: 67, 71, 72; (66)</li> </ul>	<p><b>1</b> Conservation of energy; kinetic and gravitational potential energy; <u>Experiment 9 (finish)</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 10.1 – 10.3</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 10: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u> (for each problem, draw energy bar charts where appropriate)</p> <ul style="list-style-type: none"> <li>• Knight 10: 3, 7, 9, 35, 42a, 53</li> <li>• SPIRAL 10: 3, 5</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 10: 1, 2, 5, 6, 11, 13, 33, 50, 54, 55</li> <li>• SPIRAL 10: 4</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 10: 74</li> </ul>
<b>12</b>	<p><b>6</b> <b>TEST 5 (Chapters 8-9 thru 9.5 only)</b>  Hooke's Law; elastic potential energy</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 10.4 – 10.5</li> <li>• Lab: <u>Experiment 10</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 10: 15, 17, 19, 20, 21, 22</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 10: 15, 19, 23, 39, 49</li> <li>• SPIRAL 10: 1, 2, 6, 7, 8, 9, 10</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 10: 14, 17, 20, 24, 45, 47, 56, 63</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 10: 69, 70</li> </ul>	<p><b>8</b> Energy diagrams; work; <u>Experiment 10: Conservation of momentum in 2D</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 10.7, 11.1 – 11.4</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 10: 25, 26, 27</li> <li>• WB 11: 1, 2, 3, 4, 5, 7, 8, 10, 11, 13, 14</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 10: 29, 31, 61</li> <li>• Knight 11: 1, 3, 5, 7, 9, 11, 13, 15</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 10: 30, 60, 62</li> <li>• Knight 11: 2, 4, 6, 8, 10, 12, 14</li> </ul>

# 2007

# November

WEEK	Tuesday	Thursday
13	<p><b>13</b> Work and potential energy; conservation of energy; power; <u>Experiment 10</u> (finish)</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 11.5 – 11.9</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 11: 15, 16, 17, 19, 20, 24, 25</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 11: 17, 19, 23, 25, 35, 41, 53</li> <li>• SPIRAL 11: 1, 4, 6, 11, 12, 14, 18, 19, 21, 22, 24</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 11: 20, 21, 22, 27, 39, 43, 44, 45, 47, 49, 51, 54</li> <li>• SPIRAL 11: 2, 3, 5, 7, 9, 10, 13, 15, 16, 17, 20, 24</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 11: 57, 72, 73</li> </ul>	<p><b>15</b> Gravity; problem session</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 12.1 – 12.4</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 12: 1, 2, 3, 5, 6</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 12: 7, 9, 13, 35, 39a</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 12: 1, 3, 6, 11, 12, 29, 33, 34, 38, 51</li> </ul>
14	<p><b>20</b> <b>TEST 6 (Chapters 10-11)</b>            Gravitational potential energy; orbits; problem session</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 12.5 – 12.6</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 12: 8, 9, 11</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 12: 15, 17, 21, 27, 37, 41, 43, 49, 55, 61</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 12: 16, 19, 22, 23, 24, 29, 36, 39b, 42, 44, 45, 47, 54, 62, 64, 65</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 12: 72, 73, 74, 76</li> </ul>	<p><b>22</b> Thanksgiving Holiday</p> <p><b><u>NO CLASS</u></b></p>

# 2007

# Nov / Dec

<i>WEEK</i>	<i>Tuesday</i>	<i>Thursday</i>
<b>15</b>	<p><b>27</b> Rotational kinematics and torque; <u>Experiment 11: Torques and Static Equilibrium</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 13.1 – 13.3</li> <li>• Lab: <u>Experiment 11</u></li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 13: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 3, 5, 7, 11, 14, 15, 49</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 1, 2, 4, 6, 8, 12, 13, 48</li> </ul>	<p><b>29</b> Rotational dynamics and static equilibrium; <u>Experiment 11 (finish)</u></p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 13.4 – 13.6</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 13: 14, 15, 16, 17, 18, 20, 22, 23, 25, 26, 27</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 19b &amp; c, 21, 23, 27, 57, 59, 67, 69, 75</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 17b, 24, 25, 26, 54, 56, 58, 60, 64, 68</li> </ul>
<b>16</b>	<p><b>4</b> Rotational energy and rolling; problem session</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 13.7 – 13.8</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 13: 28, 29, 30, 31</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 29, 31, 33, 65, 71, 77, 83</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 28, 30, 32, 34, 73</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 84, 85</li> </ul>	<p><b>6</b> Vector description of rotation; conservation of angular momentum; Force Concept Inventory</p> <p><b><u>BEFORE CLASS:</u></b>  <u>Read:</u></p> <ul style="list-style-type: none"> <li>• Knight: § 13.9 – 13.10</li> </ul> <p><u>Problems:</u></p> <ul style="list-style-type: none"> <li>• WB 13: 33, 35, 36, 37, 38, 39</li> </ul> <p><b><u>AFTER CLASS:</u></b>  <u>Required:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 35, 39, 41, 47, 79, 82</li> </ul> <p><u>Additional Practice:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 37, 38, 40, 42, 43, 46, 80</li> </ul> <p><u>Challenge Problems:</u></p> <ul style="list-style-type: none"> <li>• Knight 13: 87, 88</li> </ul>

# 2007

# Decmeber

WEEK	<i>Tuesday</i>	<i>Thursday</i>
<b>17</b>	<p><b>11</b> Final Exam Week</p> <p><u>FINAL EXAM (Chapters 12-13 new; cumulative)</u>  <u>5:00 pm – 7:00 pm</u></p>	<p><b>13</b> Final Exam Week</p> <p><u>NO CLASS</u></p>

## 2007