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| Physics 20 2012/2013 Semester 1 (general calendar) | | | | |
| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **September 3** | **4** | **5** | **6** | **7** |
| **Labour Day**  **No classes** | Introduction  Lesson 1 – Average speed | Hand-in Lesson 1  Lesson 2 – Displacement | **NSS camp** | **NSS camp** |
| **10** | **11** | **12** | **13** | **14** |
| Hand-in Lesson 2  Lesson 3 – Velocity – Graphical analysis   * Optional lecture | Hand-in Lesson 3  Lesson 4 – Graphing activities   * Constant velocity | Hand-in L04 Constant Velocity  Lesson 4 – Graphing activities   * Accelerated motion | Hand-in L04  Quiz   * Lessons 1 to 4 | Lesson 5 – Accelerated motion: Graphical   * Optional lecture |
| **17** | **18** | **19** | **20** | **21** |
| Work period | Hand-in Lesson 5  Lesson 6 – Graphing activities   * Up-Down activity | Work period | Lesson 6 – Graphing activities   * **phet** activity | **Non-Instruction day** |
| **24** | **25** | **26** | **27** | **28** |
| Hand-in Up-Down activity and phet activity  Quiz   * Lessons 5 to 6 | Lesson 7 – Accelerated Motion | Hand-in Lesson 7  Lesson 8 – Acceleration, Displacement I   * Optional lecture | Work period | Hand-in Lesson 8  Lesson 9 – Acceleration, Displacement II   * Optional lecture |
| **October 1** | **2** | **3** | **4** | **5** |
| Work period | Hand-in Lesson 9  Quiz   * Lessons 7 to 9 | Lessons 1 to 9 review | Doomsday Test   * Lessons 1 to 9 | Lesson 10 – Kinematics in 2 Dimensions |
| **8** | **9** | **10** | **11** | **12** |
| **Thanksgiving day** | Mark Lesson 10  Lesson 11 – Complex 2 Dim. Vectors | Work period | Mark Lesson 11  Quiz   * Lessons 10 to 11 | Lesson 12 – Relative Motion   * Optional lecture |
| **15** | **16** | **17** | **18** | **19** |
| Work period | Hand-in Lesson 12  Lesson 13 – Projectiles   * Optional lecture | Work period | Mark Lesson 13  Quiz   * Lesson 12 and 13 | Review 1 to 13 |

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **22** | **23** | **24** | **25** | **26** |
| Doomsday test   * Lessons 1 to 13 | Lesson 14 – Dynamics Conceptual Change   * Optional lecture | Mark Lesson 14  Lesson 15 – Dynamics problem solving | Work period | **Non-Instruction day** |
| **29** | **30** | **31** | **November 1** | **2** |
| Mark Lesson 15  Lesson 16 – Mass Weight Friction   * Optional lecture | Lesson 16 activity | Mark Lesson 16  Lesson 17 – Vertical forces, inclines   * Optional lecture | Hand-in Lesson 16 activity  Quiz   * Lessons 14 to 16 | Work period |
| **5** | **6** | **7** | **8** | **9** |
| Mark Lesson 17  Lesson 18 – Pulleys, systems   * Optional lecture | Work period | Mark Lesson 18  Quiz   * Lessons 17 to 18 | Lessons 1 to 18 review | Doomsday test   * Lessons 1 to 18 |
| **12** | **13** | **14** | **15** | **16** |
| Lesson 19 – Uniform circular motion   * Optional lecture | Mark Lesson 19  Lesson 20 – Vertical UCM   * Optional lecture | Work period | **Classes finish at 11:15**  **Parent-Teacher Interviews**  **1:00 to 8:00** | **Non-Instruction day** |
| **19** | **20** | **21** | **22** | **23** |
| Mark Lesson 20  Quiz   * Lessons 19 to 20 | Lesson 21 – Universal Gravitation  Lesson 22 –Gravitational field strength | Mark Lesson 21 and 22  Lesson 23 – Orbits & Satellites   * Optional lecture | Work period | Mark Lesson 23  Quiz   * Lessons 21 to 23 |
| **26** | **27** | **28** | **29** | **30** |
| Lessons 1 to 23 review | Doomsday test   * Lessons 1 to 23 | Lesson 24 – SHM pendulums | Hand in Lesson 24  Lesson 24 – SHM pendulum   * activities | Hand-in Lesson 24 activity  Lesson 25 – SHM springs |
| **December 3** | **4** | **5** | **6** | **7** |
| Hand in Lesson 25  Lesson 25 – SHM springs   * activities | Hand-in Lesson 25 activity  Quiz   * Lessons 24 to 25 | Lesson 26 – Work, Energy and Power | Work period | **Non-Instruction day** |

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **10** | **11** | **12** | **13** | **14** |
| Hand in Lesson 26  Lesson 27 – Conservation of Energy   * Optional lecture | Work period | Hand in Lesson 27  Lesson 27 activity | Hand-in Lesson 27 activity  Lesson 28 – SHM forces & energy   * Optional lecture | Work period |
| **17** | **18** | **19** | **20** | **21** |
| Hand-in Lesson 28  Quiz   * Lessons 26 to 28 | Review 1 to 28 | Doomsday Test   * Lessons 1 to 28 | Lesson 29 – Waves in One Dimension   * activity | **Non-Instruction day** |
| **January 7** | **8** | **9** | **10** | **11** |
| **No classes** | Work period | Hand-in Lesson 29  Lesson 30 – Waves in Two Dimensions | Work period | Hand-in Lesson 30  Lesson 31 – Sound & Resonance   * Optional cool demos |
| **14** | **15** | **16** | **17** | **18** |
| Hand-in Lesson 31  Lesson 32 – Doppler effect | Hand-in Lesson 32  Quiz   * Lesson 29 to 32 | Review 1 to 32 | Doomsday Test   * Lessons 1 to 32 |  |
| **21** | **22** | **23** | **24** | **25** |
|  |  | Last day of classes |  |  |
| **28** | **29** | **30** | **31** | **February 1** |
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