Physics 20 2012/2013 Semester 1 (general calendar)

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

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

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