Physics 30 2012/2013 Semester 1 (general calendar)

Monday	Tuesday	Wednesday	Thursday	Friday
September 3 **Labour Day**	**4** Review of Physics 20 ⇒ kinematics ⇒ vectors, trigonometry	**5** Review of Physics 20 ⇒ UCM, dynamics	**6** **NSS camp**	**7** **NSS camp**
10 Lesson 1 – Momentum in 1 Dimension ⇒ Optional lecture	**11** Lesson 1 Activity – *1D Momentum*	**12** Hand-in Lesson 1 Lesson 2 – 2D Momentum ⇒ Optional lecture	**13** Work period	**14** Hand-in Lesson 2 Lesson 2 Activity – *2D Momentum*
17 Lesson 3 – Impulse, Change in Momentum	**18** Hand-in Lesson 3 Quiz ⇒ Lessons 1 to 3	**19** Lesson 4 – Graphing Review 1 to 4	**20** Hand-in Lesson 4 Doomsday test ⇒ Lessons 1 to 4	**21** **Non-Instruction day**
24 Lesson 5 – Introduction to Light	**25** Work period	**26** Hand-in Lesson 5 Lesson 6 – Reflection	**27** Hand-in Lesson 6 Lesson 7 – Curved mirrors	**28** Lesson 7 activity work period
October 1 Hand-in Lesson 7 Lesson 8 – Refraction ⇒ Optional lecture	**2** Quiz ⇒ Lessons 5 to 7	**3** Hand-in Lesson 8 Lesson 8 Activity	**4** Lesson 9 – Lenses	**5** Hand-in Lesson 9 Lesson 9 Activity
8 **Thanksgiving day**	**9** Quiz ⇒ Lesson 8 to 9	**10** Lesson 10 – Dispersion, scattering, colour, polarisation ⇒ activity	**11** Hand-in Lesson 10 Lesson 11 – Double slit interference ⇒ Optional lecture	**12** Hand-in Lesson 11 Lesson 12 – Diffraction gratings ⇒ activity
15 Hand-in Lesson 12 Quiz ⇒ Lessons 10 to 12	**16** Review 1 to 12	**17** Doomsday Test Lessons 1 to 12	**18** Lesson 13 Activity – *Electrostatics*	**19** work period
22 Hand-in Lesson 13 Lesson 14 – Coulomb's Law ⇒ Optional lecture	**23** work period	**24** Hand-in Lesson 14 Quiz ⇒ Lesson 13 to 14	**25** Lesson 15 – Electric Fields	**26** **Non-Instruction day**

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29 Hand-in Lesson 15 Lesson 16 – Electric potential	**30** Hand-in Lesson 16 Lesson 17 – Parallel plates ⇒ Optional lecture	**31** Hand-in Lesson 17 Lesson 18 – Electric current	**November 1** Hand-in Lesson 18 Quiz ⇒ Lessons 15 to 18	**2** Review 1 to 18
5 Doomsday test ⇒ Lessons 1 to 18	**6** Lesson 19 – Magnetic fields	**7** Hand-in Lesson 19 Lesson 20 – Magnetic forces on charged particles	**8** Hand-in Lesson 20 Lesson 21 – Motor effect	**9** Hand-in Lesson 21 Quiz ⇒ Lessons 19 to 21
12 Lesson 22 – Generator effect	**13** Hand-in Lesson 22 Lesson 23 Activity – *Lenz's Law*	**14** Hand-in Lesson 23 Lesson 24 – Electro-magnetic radiation	**15** **Classes finish at 11:15** **Parent-Teacher Interviews** **1:00 to 8:00**	**16** **Non-Instruction day**
19 work period	**20** Hand-in Lesson 24 Quiz ⇒ Lessons 22 to 24	**21** Review 1 to 24	**22** Doomsday Test ⇒ Lessons 1 to 24	**23** Lesson 25 – Early Atomic Models Lesson 26 – Cathode Rays
26 work period	**27** Hand-in Lesson 26 Lesson 27 – Rutherford's Model of the Atom	**28** Hand-in Lesson 27 Lesson 28 – Quantization of Light ⇒ Optional lecture	**29** Quiz ⇒ Lessons 25 to 27	**30** Hand-in Lesson 28 Lesson 29 – Photoelectric effect
December 3 Hand-in Lesson 29 Lesson 29 Activity – *Photoelectric* **phet** *effect*	**4** Mark Lesson 29 activity Lesson 30 – Light Spectra & Excitation States ⇒ Optional lecture	**5** Work period	**6** Hand-in Lesson 30 Lesson 31 – The Bohr Model	**7** **Non-Instruction day**
10 Quiz ⇒ Lesson 28 to 30	**11** Hand-in Lesson 31 Lesson 32 – X-rays and Compton Effect ⇒ Optional lecture	**12** Work period	**13** Hand-in Lesson 32 Lesson 33 – Waves and Particles ⇒ Optional lecture/video	**14** Hand-in Lesson 33 Quiz ⇒ Lesson 31 to 33

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17 Lesson 34 – Wave Mechanics/Uncertainty ⇒ optional Review 1 to 33	**18** Doomsday Test ⇒ Lessons 1 to 33	**19** Lesson 35 – Nuclear physics	**20** Hand-in Lesson 35 Lesson 36 – Radioactivity	**21** **Non-Instruction day**
January 7 **No classes**	**8** Hand-in Lesson 36 Quiz ⇒ Lesson 35 to 36	**9** Lesson 37 – particle physics ⇒ Optional lecture	**10** Hand-in Lesson 37 Lesson 38 – quarks	**11** Hand-in Lesson 38 Doomsday Test Lessons 35 to 38 Marks due at 2:30 pm
14 Diploma prep.	**15** Diploma prep.	**16** Diploma prep.	**17** Diploma prep.	**18** Diploma prep.
21 Diploma prep.	**22** Diploma prep.	**23** Diploma prep.	**24** Diploma prep.	**25** Diploma prep.
28 **Diploma Exam** 9:00 AM 2 hours + 30 minutes	**29**	**30**	**31**	**February 1**