Physics 30 2015/2016 Semester 1 (general calendar)

Monday	Tuesday	Wednesday	Thursday	Friday
	September 1 Review of Physics 20 ⇒ kinematics ⇒ vectors, trigonometry	**2** Review of Physics 20 ⇒ UCM, dynamics	**3** **NSS camp**	**4** **NSS camp**
7 **Labour Day**	**8** Lesson 1 – Momentum in 1 Dimension ⇒ Optional lecture	**9** Lesson 1 Activity – *1D Momentum*	**10** Hand-in Lesson 1 Lesson 2 – 2D Momentum ⇒ Optional lecture	**11** Work period
14 Hand-in Lesson 2 Lesson 2 Activity – *2D Momentum*	**15** Lesson 3 – Impulse, Change in Momentum	**16** Hand-in Lesson 3 Quiz ⇒ Lessons 1 to 3	**17** Lesson 4 – Graphing Review 1 to 4	**18** Work period
21 Hand-in Lesson 4 Doomsday test ⇒ Lessons 1 to 4	**22** Lesson 5 – Introduction to Light	**23** Hand-in Lesson 5 Lesson 6 – Reflection	**24** Hand-in Lesson 6 Lesson 7 – Curved mirrors	**25** **Non-Instruction day**
28 Lesson 7 activity work period	**29** Hand-in Lesson 7 Lesson 8 – Refraction ⇒ Optional lecture	**30** Quiz ⇒ Lessons 5 to 7	**October 1** Hand-in Lesson 8 Lesson 8 Activity	**2** Lesson 9 – Lenses
5 Hand-in Lesson 9 Lesson 9 Activity	**6** Quiz ⇒ Lesson 8 to 9	**7** Lesson 10 – Dispersion, scattering, colour, polarisation ⇒ activity	**8** Hand-in Lesson 10 Lesson 11 – Double slit interference ⇒ Optional lecture	**9** Hand-in Lesson 11 Lesson 12 – Diffraction gratings ⇒ activity
12 **Thanksgiving day**	**13** Hand-in Lesson 12 Quiz ⇒ Lessons 10 to 12	**14** Review 1 to 12	**15** Doomsday Test Lessons 1 to 12	**16** Lesson 13 Activity – *Electrostatics*
19 work period	**20** Hand-in Lesson 13 Lesson 14 – Coulomb's Law ⇒ Optional lecture	**21** work period	**22** Hand-in Lesson 14 Quiz ⇒ Lesson 13 to 14	**23** Lesson 15 – Electric Fields

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26 Hand-in Lesson 15 Lesson 16 – Electric potential	**27** Hand-in Lesson 16 Lesson 17 – Parallel plates ⇒ Optional lecture	**28** Work period	**29** Hand-in Lesson 17 Lesson 18 – Electric current	**30** **Non-Instruction day**
November 2 Hand-in Lesson 18 Quiz ⇒ Lessons 15 to 18	**3** Review 1 to 18	**4** Doomsday test ⇒ Lessons 1 to 18	**5** **No Classes** **Parent-Teacher Interviews** **11:00 to 7:00**	**6** Lesson 19 – Magnetic fields
9 Hand-in Lesson 19 Lesson 20 – Magnetic forces on charged particles	**10** Hand-in Lesson 20 Lesson 21 – Motor effect	**11** **Remembrance Day**	**12** Hand-in Lesson 21 Quiz ⇒ Lessons 19 to 21	**13** Lesson 22 – Generator effect
16 Hand-in Lesson 22 Lesson 23 Activity – *Lenz's Law*	**17** Hand-in Lesson 23 Lesson 24 – Electro-magnetic radiation	**18** work period	**19** Hand-in Lesson 24 Quiz ⇒ Lessons 22 to 24	**20** **Non-Instruction day**
23 Review 1 to 24	**24** Doomsday Test ⇒ Lessons 1 to 24	**25** 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
30 Hand-in Lesson 27 Lesson 28 – Quantization of Light ⇒ Optional lecture	**December 1** Quiz ⇒ Lessons 25 to 27	**2** Hand-in Lesson 28 Lesson 29 – Photoelectric effect	**3** Hand-in Lesson 29 Lesson 29 Activity – *Photoelectric* **phet** *effect*	**4** **Non-Instruction day**
7 Mark Lesson 29 activity Lesson 30 – Light Spectra & Excitation States ⇒ Optional lecture	**8** Work period	**9** Hand-in Lesson 30 Lesson 31 – The Bohr Model	**10** Quiz ⇒ Lesson 28 to 30	**11** Hand-in Lesson 31 Lesson 32 – X-rays and Compton Effect ⇒ Optional lecture

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14 Work period	**15** Hand-in Lesson 32 Lesson 33 – Waves and Particles ⇒ Optional lecture/video	**16** Hand-in Lesson 33 Quiz ⇒ Lesson 31 to 33	**17** Lesson 34 – Wave Mechanics/Uncertainty ⇒ optional Review 1 to 33	**18** Doomsday Test ⇒ Lessons 1 to 33
January 4 Lesson 35 – Nuclear physics	**5** Work period	**6** Hand-in Lesson 35 Lesson 36 – Radioactivity	**7** Work period	**8** Hand-in Lesson 36 Quiz ⇒ Lesson 35 to 36
11 Lesson 37 – particle physics ⇒ Optional lecture	**12** Work period	**13** Hand-in Lesson 37 Lesson 38 – quarks	**14** Hand-in Lesson 38 Doomsday Test Lessons 35 to 38	**15** **Deadline** All work must be in and complete by 3:00 pm
18 Diploma prep.	**19** Diploma prep.	**20** Diploma prep.	**21** Diploma prep.	**22** Diploma prep.
25	**26** **Diploma Exam** 9:00 AM 2 hours + 30 minutes	**27**	**28**	**29**