|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Physics 30 2014/2015 Semester 2 (general calendar) | | | | | |
| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **February 2** | **3** | **4** | **5** | **6** |
| Review of Physics 20   * kinematics * vectors, trigonometry | Review of Physics 20   * UCM, dynamics | Lesson 1 – Momentum in 1 Dimension   * Optional lecture | Lesson 1 Activity – *1D Momentum* | Hand-in Lesson 1  Lesson 2 – 2D Momentum   * Optional lecture |
| **9** | **10** | **11** | **12** | **13** |
| Work period | Hand-in Lesson 2  Lesson 2 Activity – *2D Momentum* | Lesson 3 – Impulse, Change in Momentum | **Teacher’s convention** | **Teacher’s convention** |
| **16** | **17** | **18** | **19** | **20** |
| **Family day** | Hand-in Lesson 3  Quiz   * Lessons 1 to 3 | Lesson 4 – Graphing | Hand-in Lesson 4  Review 1 to 4 | Doomsday test   * Lessons 1 to 4 |
| **23** | **24** | **25** | **26** | **27** |
| Lesson 5 – Introduction to Light | work period | Hand-in Lesson 5  Lesson 6 – Reflection | Hand-in Lesson 6  Lesson 7 – Curved mirrors | Work period  Lesson 7 activity |
| **March 2** | **3** | **4** | **5** | **6** |
| Hand-in Lesson 7  Quiz   * Lessons 5 to 7 | Lesson 8 – Refraction | Work period | Lesson 8 Activity | Hand-in Lesson 8  Lesson 9 – Lenses |
| **9** | **10** | **11** | **12** | **13** |
| Hand-in Lesson 9  Lesson 9 Activity | Quiz   * Lesson 8 to 9 | Lesson 10 – Dispersion, scattering, colour, polarisation   * activity | Hand-in Lesson 10  Lesson 11 – Double slit interference | Hand-in Lesson 11  Lesson 12 – Diffraction gratings   * activity |
| **16** | **17** | **18** | **19** | **20** |
| Hand-in Lesson 12  Quiz   * Lessons 10 to 12 | Review 1 to 12 | Doomsday Test   * Lessons 1 to 12 | **No Classes**  **Parent-Teacher Interviews**  **11:00 to 7:00** | **Non-instruction Day** |
| **30** | **31** | **April 1** | **2** | **3** |
| Lesson 13 Activity – *Electrostatics* | Work period | Hand-in Lesson 13  Lesson 14 – Coulomb’s Law | Work period | **Good Friday** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **6** | **7** | **8** | **9** | **10** |
| **Non-instruction Day** | Hand-in Lesson 14  Quiz   * Lesson 13 to 14 | Lesson 15 – Electric Fields | Hand-in Lesson 15  Lesson 16 – Electric potential | Hand-in Lesson 16  Lesson 17 – Parallel plates |
| **13** | **14** | **15** | **16** | **17** |
| Work period | Hand-in Lesson 17  Lesson 18 – Electric current | Hand-in Lesson 18  Quiz   * Lessons 15 to 18 | Review 1 to 18 | Doomsday test   * Lessons 1 to 18 |
| **20** | **21** | **22** | **23** | **24** |
| Lesson 19 – Magnetic fields | Hand-in Lesson 19  Lesson 19 Activity | Lesson 20 – Magnetic forces on charged particles | Hand-in Lesson 20  Lesson 21 – Motor effect | Hand-in Lesson 21  Quiz   * Lessons 19 to 21 |
| **27** | **28** | **29** | **30** | **May 1** |
| Lesson 22 – Generator effect | Hand-in Lesson 22  Lesson 23 Activity – *Lenz’s Law* | Hand-in Lesson 23  Lesson 24 – Electro-magnetic radiation | Work period | Hand-in Lesson 24  Quiz   * Lessons 22 to 24 |
| **4** | **5** | **6** | **7** | **8** |
| Review 1 to 24 | Doomsday Test   * Lessons 1 to 24 | **Personal Planning Day**  **No Class** | Lesson 25 – Early Atomic Models  Lesson 26 – Cathode Rays | Hand-in Lesson 26  Lesson 27 – Rutherford’s Model of the Atom |
| **11** | **12** | **13** | **14** | **15** |
| Hand-in Lesson 27  Quiz   * Lessons 25 to 27 | Lesson 28 – Quantization of Light | Hand-in Lesson 28  Lesson 29 – Photoelectric effect | Hand-in Lesson 29  Lesson 29 Activity – *Photoelectric* **phet** *effect* | **Non-instruction Day** |
| **18** | **19** | **20** | **21** | **22** |
| **Victoria day** | Hand-in Lesson 29 activity  Lesson 30 – Light Spectra & Excitation States | Work period | Hand-in Lesson 30  Quiz   * Lesson 28 to 30 | Lesson 31 – The Bohr Model |
| **25** | **26** | **27** | **28** | **29** |
| Hand-in Lesson 31  Lesson 32 – X-rays and Compton Effect | Hand-in Lesson 32  Lesson 33 – Waves and Particles   * Optional video | Hand-in Lesson 33  Quiz   * Lesson 31 to 33 | Lesson 34 – Wave Mechanics/Uncertainty   * optional   Review 1 to 33 | Doomsday Test   * Lessons 1 to 33 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **June 1** | **2** | **3** | **4** | **5** |
| Lesson 35 – Nuclear physics | Hand-in Lesson 35  Lesson 36 – Radioactivity | work period | Hand-in Lesson 36  Quiz   * Lesson 35 to 36 | Lesson 37 – particle physics   * Optional lecture |
| **8** | **9** | **10** | **11** | **12** |
| Hand-in Lesson 37  Lesson 38 – quarks | Hand-in Lesson 38  Doomsday Test   * Lessons 35 to 38 |  |  |  |
| **15** | **16** | **17** | **18** | **19** |
|  | **Deadline**  All work must be in and complete by 2:00 pm | Diploma prep. | Diploma prep. | Diploma prep. |
| **22** | **23** | **24** | **25** | **26** |
| Diploma prep. |  |  | **Diploma Exam**  9:00 AM  2 hours + 30 minutes |  |