**Physics G**

Chapters 12 and 13

Waves and Sound

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| Block | Class | Due | If you miss this class: |
| 1  **May**  **23/24** | -Types of waves  -Anatomy of a wave:  Wavelength, magnitude, frequency |  | **-Read:** 12-3 (pp. 452-458)  **-Watch:** Videos A, B, C |
| 2  **May**  **25/26** | -Reflections and interference  -Standing Waves intro - modes | **-Check:** Waves 1-8 | **-Read:** 12-4 (pp. 459-465)  **-Watch:** Videos D, E, F |
| 3  **May**  **30/31** | -Standing Waves – wavelength and frequency  -Work in class on Standing wave problems | **-Check:** Waves 9-15  **-Turn In:** Waves 1-15 | **-Read:** 13-3 (p. 494-499)  **-Watch:** Videos G |
| 4  **June**  **1/2** | -Standing Wave Demos | **-Check:** Standing Waves 1-8 | **-Read:** 13-1 (pp. 480-484)  **-Read:** 13-3 (p. 502-503)  **-Watch:** Videos G |
| 5  **June**  **5/6** | -Nature of sound  -Beats/Demos | **-Check:** Standing Waves 9-12  **-Turn In:** Standing Waves 1-12 | **-Read:** 13-1 (pp. 485-486)  **-Watch:** Videos H, I, J |
| 6  **June**  **7/8** | **Test on Waves** (sans Doppler)  Farewell to Seniors! |  |  |
| 7  **June**  **9/12** | Speed of Sound Lab |  |  |
| **8**  **June**  **13/14** | -Doppler effect and shockwaves (qualitative)  -Final Review |  | **-Watch:** Videos K, L, M |
| Skip | -Doppler effect and shockwaves |  | **-Read:** (pp. 504-505)  **-Watch:** Videos K, L, M |
| Skip | -Speed of Sound Lab | **-Turn In:** Doppler 1-8 (1-8 only – the rest is EC) |  |
| Skip | -Mock Test  -Finish Lab? | **-Check:** Standing Waves 1a-d, 2a-d |  |
| Skip | -Mock Test  -Finish Lab? | **-Check:** Standing Waves 13, 14, 15 |  |
| Skip | -Test on Waves  -Farewells to the Seniors | **-Turn In:** Speed of Sound Lab  **-Turn In:** Mock Test  **-Turn In:** Standing Waves 1a-d, 2a-d, 13, 14, 15 |  |
| Skip | -Polarization of Light  -Mock Final |  |  |
| **Finals** | -A Meaningful Final  (Not too hard, not worth a ton) |  |  |
| Assignments:   * 3 Worksheets (Formative)   + *Waves* (15) + 2 stamps /34 pts   + *Standing Waves* (12) + 2 stamps /28 pts   + *Doppler* (8) + 2 stamps /20 pts - Skip   + Mock test 20 pts * 2 Labs:   + Speed Of Sound /30 pts   + Oaks Park Lab Presentation /100 pts * 1 (short) Test:   + Waves Test (20 summative points) | | Handouts: | |