Rio Americano High School AP Physics 2
AP2.08 Advanced Light and Optics   [2/6/20]

1. r 2/6 – Cosmos: A Spacetime Odyssey
Episode 7. The Clean Room

2. F 2/7 – Unfinished Refractions
Springboard: Snell's Law (with sine)
Lab Springboard: Using Snell to Find n
Q&P Page/s <   > APFR:

3. M 2/10 – Unfinished Refractions
Critical Angle (with arcsine)
Lab Springboard: Using TIR to Find n
Q&P Page/s <   > APFR:

4. B1 2/11 – Image Characterization
Job: Image Characterization
Job: Magnification
Q&P Page/s <   > APFR:

5. B1 2/12 – Image Formation
Lab Springboard: Reflections II
Lab Springboard: Mirror Experience
Guide: Mirror Measures
Guide: Principal Rays for Mirrors
Job: Ray Tracing 1 and 2
Q&P Page/s <   > APFR:

6. r 2/13 – Launch Into Lenses
Springboard: Lens Experience
Guide: Lens Lengths, Principle Rays
Job: Ray Tracing 3 and 4
Q&P Page/s <   > APFR:

7. F 2/14 – Corrective Lenses
Vision Defects
Q&P Page/s <   > APFR:

--- PRESIDENTS' WEEK ---

8. M 2/24 – Water Lenses & Air Lenses
Springboard: Water Lenses
Springboard: Air Lenses
Job: Inverted Index Lenses
Q&P Page/s <   > APFR:

9. B1 2/25 – Looking Through the Glass EXP
Data Collection and Analysis
Q&P Page/s <   > APFR:

10. B2 2/26 – Look Through Unknown Glass
Data Collection and Analysis
Q&P Page/s <   > APFR:

11. r 2/27 – Numbers
Job: Number Crunching
Job: Image Meta-Analysis
YTHW - Mech Univ: The Wave Nature of Light
Q&P Page/s <   > APFR:

12. F 2/28 – Wave Interference
PhETLab: The Fringe of Optics
Q&P Page/s <   > APFR:

13. M 3/2 – Wave Optics Math
Practice Problems
Q&P Page/s <   > APFR:

14. B1 3/3 – Wrap Up
TCM AP2.07: Advanced Electromagnetism

15. B2 3/4 – Unit Test AP2.08: Adv. Optics

Essentials of College Physics Textbook: Chapters 22 Reflection and Refraction and 23 Mirrors and Lenses

Hewitt Drew It Screencasts: LIGHT: Reflection and Refraction

Make Up Unit Test AP2.07 as soon as possible; no later than Friday, 2/14. AP make up tests are administered after school only. Remember, notecards cannot be used on make-up tests.