Rio Americano High School AP Physics 2

AP2.08 Advanced Light and Optics

[2/2/18]

1. T 2/6 – Cosmos: A Spacetime Odyssey

Episode 10. The Electric Boy (out of sequence)

2. W 2/7 - 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:

3. R 2/8 – Image Characterization

Job: Image Characterization

Job: Magnification

Q&P Page/s < > APFR:

4. F 2/9 – Unfinished Refractions

Springboard: Snell's Law (with sin)
Lab Springboard: Using Snell to Find *n*Q&P Page/s < > APFR:

5. M 2/12 - Unfinished Refractions

Critical Angle (with arcsin)
Lab Springboard: Using TIR to Find n
Q&P Page/s < > APFR:

6. T 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. W 2/14 - Looking Through the Glass EXP

Data Collection and Analysis Q&P Page/s < > APFR:

8. R 2/15 - Look Through Unknown Glass

Data Collection and Analysis Q&P Page/s < > APFR:

9. F 2/16 - Corrective Lenses

Vision Defects

Q&P Page/s < > APFR:

--- PRESIDENTS' WEEK ---

10. M 2/26 - Numbers

Job: Number Crunching
Job: Image Meta-Analysis
Mechanical Universe: The Wave Nature of Light
Q&P Page/s < > APFR:

11. B1 2/27 - Water Lenses & Air Lenses

Springboard: Water Lenses Springboard: Air Lenses Job: Inverted Index Lenses Q&P Page/s < > APFR:

12. B1 2/27 - Wave Interference

PhETLab: The Fringe of Optics Q&P Page/s < > APFR:

13. R 3/1 - Wave Optics Math

Practice Problems Q&P Page/s < > APFR:

14. F 3/2 – Wrap Up

TCM 2.07

15. M 3/5 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 Monday, 2/12. AP make up tests are administered after school only. Remember, notecards cannot be used on make-up tests.