

Rio Americano High School Physics

PHY.10 Light

[2/15/19]

1. w 4/3 – Web Quest: Research

__ Springboard: Electromagnetic Spectrum
__ Read Guide: EM Waves/The EM Spectrum
__ Read Guide: Making Waves 5
__ Complete Q&P < > Due _____

2. r 4/4 – Color: Pixel Peeping

__ PhETLab+: Pixel Peeping
__ Extension: Fun With Colors
__ Complete Q&P < > Due _____

3. F 4/5 – Cosmos: A Personal Voyage

Episode VIII:

4. M 4/8 – Films In Living Color

__ Conceptual Physics Alive: Light and Color
__ The Magic of Magenta (Royal Institution)
__ Octopus Camouflage (SciFri)
__ Examples: Light/Indices of Refraction
__ Complete Q&P < > Due _____

5. T 4/9 – Reflection

__ Lab Springboard: Reflections I
__ Read Guide: Reflection
__ YT: Cell Phone Popcorn
__ Complete Q&P < > Due _____

6. W 4/10 – Intro to Refraction

__ Lab Springboard: Diversion Into Refraction
__ Read Guide: Refraction
__ Complete Q&P < > Due _____

7. r 4/11 – Conceptual Physics Alive!

__ Reflection and Refraction
__ Complete Q&P < > Due _____

8. F 4/12 – Refraction

__ Lab Springboard: Coin In the Cup
__ Springboard: Index of Refraction
__ Complete Q&P < > Due _____

9. M 4/22 – Total Internal Reflection

__ Lab Springboard: Critical Angle
__ Read Guide: Total Internal Reflection
__ Complete Q&P < > Due _____

10. T 4/23 – Mirages

__ Lab Springboard: Mirages
__ Read Guide: Gradual Refraction
__ Complete Q&P < > Due _____

11. W 4/24 – The Dark Side of the Moon

__ Lab Springboard: Diversion Into Dispersion
__ Read Guide: Dispersion
__ Complete Q&P < > Due _____

12. r 4/25 – How Rainbows Work

__ Springboard: Rainbows
__ Complete Q&P < > Due _____

13. F 4/26 – TCJ Day

__ TCJ Quiz PHY.08 & TC Journal PHY.09
__ Homework PHY.10 return
__ PracTest (Online)

14. M 4/29 - Clickers

15. T 4/30 – Test PHY.10: Light

16. W 5/1 – Cosmos: A Personal Voyage

Episode IX:

Conceptual Physics Textbook: Chapters 27, 28, 29

Relevant Hewitt Drew It! Screencasts: LIGHT > Properties of Light (start at phyz.org/hewittdrewit)

Make up Unit Test PHY.09 as **soon as possible**; no later than F 4/12 to maintain TCJ eligibility. If the missed unit test isn't made up by this unit's TCJ Day, it will have to be made up during final exams. The TCJ for PHY.08 must be completed prior to the PHY.09 TCJ Journal Day.