

# Rio Americano High School Physics

## PHY.10 Light

[3/23/18]

---

### 1. r 4/5 – Cosmos: A Personal Voyage

Episode IX: *The Lives of the Stars*

### 2. F 4/6 – Web Quest: Research

\_\_ Springboard: Electromagnetic Spectrum

\_\_ Read Guide: EM Waves/The EM Spectrum

\_\_ Read Guide: Making Waves 5

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 3. M 4/9 – Color: Pixel Peeping

\_\_ PhETLab+: Pixel Peeping

\_\_ Extension: Fun With Colors

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 4. B1 4/10 – Films In Living Color

\_\_ Conceptual Physics Alive: Light and Color

\_\_ The Magic of Magenta (Royal Institution)

\_\_ Octopus Camouflage (SciFri)

\_\_ Examples: Light/Indicies of Refraction

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 5. B2 4/11 – Reflection

\_\_ Lab Springboard: Reflections I

\_\_ Read Guide: Reflection

\_\_ YT: Cell Phone Popcorn

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 6. r 4/12 – Intro to Refraction

\_\_ Lab Springboard: Diversion Into Refraction

\_\_ Read Guide: Refraction

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 7. F 4/13 – Conceptual Physics Alive!

\_\_ Reflection and Refraction

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 8. M 4/16 – Refraction

\_\_ Lab Springboard: Coin In the Cup

\_\_ Springboard: Index of Refraction

\_\_ YT: Angel of Carolina

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 9. B1 4/17 – Total Internal Reflection

\_\_ Lab Springboard: Critical Angle

\_\_ Read Guide: Total Internal Reflection

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 10. B2 4/18 – Mirages

\_\_ Lab Springboard: Mirages

\_\_ Read Guide: Gradual Refraction

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 11. r 4/19 – The Dark Side of the Moon

\_\_ Lab Springboard: Diversion Into Dispersion

\_\_ Read Guide: Dispersion

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 12. F 4/20 – How Rainbows Work

\_\_ Springboard: Rainbows

\_\_ Complete Q&P < > Due \_\_\_\_\_

### 13. M 4/23 – TCJ Day

\_\_ TCJ Quiz PHY.08 & TC Journal PHY.09

\_\_ Homework PHY.10 return

\_\_ PracTest (Online)

### 14. B1 4/24 – Test PHY.10: Light

### 15. B2 4/25 – Cosmos: A Personal Voyage

Episode X: *The Edge of Forever*

---

*Conceptual Physics* Textbook: Chapters 27, 28, 29

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

Make up Unit Test PHY.09 as **soon as possible**; no later than F 4/13 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.