

# Rio Americano High School Conceptual Physics

## CP.15 Light & Color [Ch. 27 & 28] + Finals [3/25/18]

---

### 1. B2 5/9 – Early Concepts of Light | The Speed of Light

- \_\_ Read §27.1 Early Concepts of Light
- \_\_ Answer q. 1
- \_\_ Read §27.2 The Speed of Light
- \_\_ Answer q. 2, 3, 4, 5, 24, 25, 30
- \_\_ Hewitt-Drew-it 103. Speed of Light

### 2. r 5/10 – Electromagnetic Waves

- \_\_ Read §27.3 Electromagnetic Waves
- \_\_ Answer q. 6, 7, 8, 26, 27, 28, 29
- \_\_ Cell Phone Popcorn

### 3. F 5/11 – Light and Transparent Materials & Opaque Materials

- \_\_ Read §27.4 Light and Transparent Materials
- \_\_ Answer q. 9, 10, 11, 12, 13, 14, 15, 37, 40
- \_\_ Read §27.5 Opaque Materials
- \_\_ Answer q. 16, 17, 36

### 4. M 5/14 – Cosmos: A Spacetime Odyssey

- \_\_ Episode 13. *Unafraid of the Dark*

### 5. B1 5/15 – Shadows

- \_\_ Read §27.6 Shadows
- \_\_ Answer q. 18, 19
- \_\_ Mechanical Universe: *The Wave Nature of Light*

### 6. B2 5/16 – Polarization & Polarized Light and 3D Viewing

- \_\_ Read §27.7 Polarization
- \_\_ Answer q. 21, 22
- \_\_ Read §27.8 Polarized Light and 3D Viewing
- \_\_ Answer q. 23, 46
- \_\_ Blackout?

### 7. r 5/17 – The Color Spectrum

- \_\_ Read §28.1 The Color Spectrum
- \_\_ Answer q. 1, 2,
- \_\_ Read §28.4 Sunlight
- \_\_ Answer q. 8, 25

### 8. F 5/18 – Color by Reflection & Color Transmission

- \_\_ Read §28.2 Color by Reflection
- \_\_ Answer q. 3, 4, 5
- \_\_ Read §28.3 Color Transmission
- \_\_ Answer q. 6, 7

### 10. M 5/21 – Mixing Colored Light

- \_\_ Read §28.5 Mixing Colored Light
- \_\_ Answer q. 9, 10, 11, 27, 28

### 11. B1 5/22 – Complementary Colors

- \_\_ Read §28.6 Complementary Colors
- \_\_ Answer q. 12, 13, 36, 37
- \_\_ Hewitt Drew It 104. Color

### 12. B2 5/23 – Why the Sky is Blue & Why Sunsets are Red

- \_\_ Read §28.8 Why the Sky is Blue
- \_\_ Answer q. 16, 17, 18, 19, 40
- \_\_ Read §28.9 Why Sunsets are Red
- \_\_ Answer q. 20, 41
- \_\_ Hewitt Drew It 105. Why the Sky is Blue
- \_\_ CPA: *Light & Color*

### 13. t 5/24 – Test Corrections

- \_\_ Test Corrections CP.14 – Waves & Sound
- \_\_ Classwork return
- \_\_ PracTest CP.15 – Light & Color

### 16. F 5/25 – Unit Test CP.15 – Light & Color

- \_\_ Semester classwork folder for seniors

---

### Unit Test CP.15 will cover

*Conceptual Physics* Textbook: Chapters 27 & 28 – Light & Color\*\*\*\* • *Conceptual Physics Alive: Light & Color\*\**  
Cosmos Episode 13: *Unafraid of the Dark\** • *Mechanical Universe* + Demos/Activities\*\*\*

**Wednesday 5/30 Seniors** – Senior Final + CTF Final

**Wednesday 5/30 Juniors** - Bill Nye Festival:

Heat, Static Electricity, Magnetism, Waves, Sound, Color + semester classwork folder

**Monday 6/4:** Junior Final + CTF Final