

# Rio Americano High School AP Physics 2

## AP2.09 Atomic and Nuclear Physics

[3/23/18]

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### 1. T 3/6 – Mechanical Universe: Quantum

\_\_The Quantum Mechanical Universe  
\_\_Textbook < > APFR:

### 2. W 3/7 – The Bohr Atom

\_\_Read Guide: The Bohr Atom  
\_\_Absorption and Emission  
\_\_Textbook < > APFR:

### 3. r 3/8 – The Bohr Atom

\_\_Mechanical Universe: Models of the Atom  
\_\_AP Problems  
\_\_Textbook < > APFR:

### 4. F 3/9 – The Photoelectric Effect

\_\_Springboard: Photoelectric Effect  
\_\_Job: Photoelectric Effect  
\_\_Textbook < > APFR:

### 5. M 3/12 – The Photoelectric Effect

\_\_PhETLab: Begin Shine a Light  
\_\_Textbook < > APFR:

### 6. T 3/13 – The Photoelectric Effect

\_\_PhETLab: Finish Shine a Light + LabQuiz  
\_\_Textbook < > APFR:

### 7. W $\pi$ – Wave Particle Duality

\_\_Mechanical Universe: Wave-Particle Duality  
\_\_The deBroglie Wavelength [Problems]  
\_\_Textbook < > APFR:

### 8. r 3/15 – Into the Nucleus

\_\_Hewitt: Radioactivity  
\_\_Textbook < > APFR:

### 9. F 3/16 – Radiometric Dating

\_\_Job: Particle Paths  
\_\_Job: Half-Life  
\_\_PhET Sim: Radioactive Speed Dating  
\_\_Textbook < > APFR:

### 10. M 3/19 – Half Life

\_\_Lab: Get a Half-life  
\_\_Textbook < > APFR:

### 11. T 3/20 – Fission and Fusion

\_\_Hewitt: Fission and Fusion  
\_\_Textbook < > APFR:

### 12. W 3/21 – Fission and Fusion

\_\_Fission and Fusion Problems  
\_\_Textbook < > APFR:

### 13. r 3/22 – Wrap Up / TCM

Test Correction Mastermind 2.08 Adv. Optics  
Textbook < > APFR:

### 14. M 3/23 – Test AP2.09: Atomic & Nuclear

Our Very Last Proper Unit Test [cry emoji]

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*Essentials of College Physics* Textbook: Chapters 28 Atomic Physics and 29 Nuclear Physics

Hewitt Drew It Screencasts: ATOMIC AND NUCLEAR PHYSICS: Atomic Nucleus and Radioactivity, and Fission and Fusion

Make Up Unit Test AP2.08 **as soon as possible**; no later than Friday, 3/16. AP make up tests are administered in two parts during ExploratoRio Season: one for multiple choice; one for free response. Remember, notecards cannot be used on make-up tests.