

# Rio Americano High School AP Physics 2

## AP2.06 Advanced DC Circuits

[11/28/17]

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### 1. r 11/30 - Digital Ohm's Law

\_\_ Lab: Ohm, Ohm on the Digital Range

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 2. F 12/1 - Digital Joule's Law

\_\_ Lab: Joule's Jewels

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 3. M 12/4 - LabQuiz + Resistance

\_\_ LabQuiz:  $\Omega$   $\Omega$  D-Range + Joule's Jewels

\_\_ Springboard: Resistance is NOT Futile

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 4. B1 12/5 + Resistance Experiment

\_\_ Experiment: There's No Place Like Ohm

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 5. B2 12/6 - Conceptual Physics Alive

\_\_ CPA: Electric Circuits

\_\_ Guide: Resistance

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 6. r 12/7 - Cosmos: A Spacetime Odyssey

\_\_ Episode 6. Deeper, Deeper, Deeper Still

### 7. F 12/8 - Series Circuits 1

\_\_ Experiment: Series Samesies

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 8. M 12/11 - Parallel Circuits 1

\_\_ Experiment: Parallel Samesies

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 9. T 12/12 - Series Circuits 2

\_\_ Experiment: Series Polyohmics

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 10. W 12/13 - Parallel Circuits 2

\_\_ Experiment: Parallel Polyohmics

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 11. r 12/14 - Lab Quizzes & Series Lessons

\_\_ Lab Quizzes: Samesies and Polyohmics

\_\_ Springboard: Series Circuits

\_\_ Guide: Series Circuits

\_\_ Examples: Series Circuits

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### 12. F 12/15 - Parallel Lessons

\_\_ Springboard: Parallel Circuits

\_\_ Guide: Parallel Circuits

\_\_ Examples: Parallel Circuits

\_\_ Q&P Page/s < \_\_\_\_\_ > APFR:

### X. M 12/18 - Practice Final Study Day

### X. R 12/21 - First Semester Final Exam

\_\_ 250 points - 50 Multiple Choice Questions

Covers AP2.02—AP2.05 (up to the exam)

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### 13. T 1/9 - Cosmos: A Spacetime Odyssey

\_\_ Episode 7. The Clean Room

### 14. W 1/10 - Compound Circuits and More

Springboard: Compound Circuits

Chain-link Challenge—Overcoming Resistance

Job: Equivalent Resistance Number Puzzles

### 15. r 1/11 - Compound Quiz + Mech Univ: C

Lab Quiz: Compound Circuits

Electric Circuits

### 16. F 1/12 - Internal Resistance of a Battery

Experiment: Internal Resistance

Q&P Page/s < \_\_\_\_\_ > APFR:

### 17. T 1/16 - TCM AP2.04 - Advanced Electricity

### 18. W 1/17 - Unit Test AP2.05 - Advanced Circuits

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*Essentials of College Physics* Textbook: Chapters 17 (Resistance) and 18 (Circuits)

Hewitt Drew It Screencasts: ELECTRICITY & MAGNETISM: Electric Current

ExploratoRio is scheduled for Open House Day/Night: Wednesday, April 5. It's the biggest CTF opportunity of the year. Mark your calendar. More information will follow soon!