

Rio Americano High School AP Physics 2

AP2.05 Advanced Electrostatics

[11/13/17]

1. M 10/30 – Cosmos: A Spacetime Odyssey

__Episode 5. *Hiding in the Light*

2. B1 10/31 – Coulombic Interactions

__Mechanical Universe: *Static Electricity*

__Examples: Advanced Electricity

__Complete Job: Coulombic Love Triangles

3. B2 11/1 – Electric Fields

__Guide: Fields

__Complete Job: Fields Concepts

__Complete Job: Field Calculations

__Complete Job: Field Plots

__Mechanical Universe: *Electric Fields*

__Q&P Page/s < _____ > APFR:

4. r 11/2 – Electric Fields

__PhETLab: 'Lectric Plates

__LabQuiz: 'Lectric Plates

__Q&P Page/s < _____ > APFR

5. F 11/3 – Electric Potential Energy

__Read Guide: Electric Potential Energy

__Complete Job: Electric Potential Energy

__Complete Job: Graphing Potential Energy

__Q&P Page/s < _____ > APFR:

6. M 11/6 – Electric Potential

__Read Guide: Electric Potential

__Complete Job: Electric Potential

__Complete Job: Graphing Potential

__Mechanical Universe: *Equipotentials and Fields*

__Q&P Page/s < _____ > APFR:

7. T 11/7 – Millikan Oil Drop Experiment

__Complete Job: The Millikan Oil Drop Experiment

__Mechanical Universe: *Millikan Oil Drop Experiment*

__Q&P Page/s < _____ > APFR:

8. W 11/8 – Capacitance

__TechLab: Two-Plate Special

__Q&P Page/s < _____ > APFR:

9. M 11/13 – Capacitor Circuits

__TechLab: Two-Plate Special

__LabQuiz: Two-Plate Special

__Q&P Page/s < _____ > APFR:

10. T 11/14 – Capacitor Circuits

__TechLab: Capacitor Curves

__TechLab: Power in the Plates

11. W 11/15 – Capacitor Circuits

__TechLab: Capacitor Graph

__Q&P Page/s < _____ > APFR:

12. r 11/16 – Capacitor Circuits

__TechLab: Power in the Plates

__Q&P Page/s < _____ > APFR:

13. F 11/17 – Capacitor Conclusions

__Wrap Up Cap Labs

__LabQuiz: Capacitor Labs

14. M 11/27 – Capacitance Catch-Up + Film

__Mechanical Universe: *Potential and Capacitance*

15. B1 11/28 - Test Correction Mastermind

__TCM Unit Test AP2.04: Thermodynamics

16. B2 11/28 – Unit Test AP2.05: Advanced Electrostatics

Guides are not printed for distribution in class. Find them at phys.org.

Essentials of College Physics Textbook: Chapters 15 and 16

Hewitt Drew It Screencasts: ELECTRICITY & MAGNETISM: Electrostatics

Make up Unit Test 2.04 as **soon as possible**; no later than W 11/8. AP make up tests are administered after school only.