

# Rio Americano High School AP Physics 2

## AP2.07 Advanced Electromagnetism

[2/2/18]

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### 0. r 1/18 - Cosmos: A Spacetime Odyssey

Episode 8. Sisters of the Sun

### 1. F 1/19 – Dipolar Classroom 1

AP1s: Lab: Seeing Magnetic Fields

HW: Weblab: People Places Things

PHYs: MechUniv-College: Magnetism

### 2. M 1/22 – Dipolar Classroom 2

AP1s: Lab: Ørsted's Discovery

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

PHYs: MechUniv-College: Magnetic Fields

### 3. T 1/23 – Dipolar Classroom 3

AP1s: Lab: Electric Magnetism

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

PHYs: Hewitt on Electromagnetism

### 4. W 1/24 – Dipolar Classroom 4

AP1s: Lab: Magnetic Electricity

LabQuiz 1: MagWeb+SeeMag

PHYs: Nova – Magnetic Storm

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

### 5. r 1/25 – Review Day

AP1s: Lab Quiz 2: EM

PHYs: TBA

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

### 6. F 1/26 – Magnetic Forces

Springboard: Right Hand Rule #2

Guide: Magnetic Forces Eqns (ILB & qvB)

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

### 7. M 1/29 – Induced EMF

Springboard: Induced EMF

Introduction to Induction

HomeSimLab: Faradays' EM Lab

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

### 8. T 1/30 – Magnetic Flux

Springboard: Magnetic Flux

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

### 9. W 1/31 – Faraday's Law

Springboard: Faraday's Law

Mechanical Universe: Induction

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

### 10. r 2/1 – The Color-Aware Tube!!!

LabQuiz: Faraday's EM Lab

Sketches: Down the Tubes

Demo: Bobbing for Magnets

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

### 11. F 2/2 – Wrap Up

AC Fun with the Jumping Ring

Test Correction Mastermind: Adv. Circuits

### 12. M 2/5 – Test AP2.06: Adv. Magnetism

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*Essentials of College Physics* Textbook: Chapters 19 (Magnetism) and 20 (Induction)

Hewitt Drew It Screencasts: ELECTRICITY & MAGNETISM: Magnetism and Electromagnetic Induction

Make Up Unit Test AP2.05 as soon as possible; no later than Friday, 1/26. AP make up tests are administered after school only. Remember, notecards cannot be used on make-up tests.