Science 10

Wednesday, April 25/18

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1. Presentation - Maker Space -> Dylan Howe

2. Review - SA - Physics #1 -> Review answer key tonight.

3. SA - Physics #1
   - Friday, April 27/18
   - Topics: See next page →

4. Tomorrow: Roller Coaster Day

SA - Physics #1 - Topics

1. definitions: physics, linear motion, physical quantity, significant digits, certainty, exact value, defined value, rounding digit, defining equation

2. SI System - International System of Units
   - know the SI base units for length, time and mass
   - be able to identify a derived unit

3. certainty - identify certain and uncertain digits in a measurement
   - determine the certainty of a measurement by stating its number of significant digits

4. scientific notation - be able to write a measurement in scientific notation

5. SDs and operation rules - Certainty Rule
   -> multiply and divide
   -> count total # of significant digits
   -> round product or quotient to same # of SDs as original measurement with the fewest SDs
   - Precision Rule
   -> add and subtract
   -> count # of digits after the decimal
   -> round sum or diffrrence to the same # of digits after the deciaml as the original measurement with the fewest digits after the decimal

6. rearrange an equation for a specified variable

7. perform metric conversions using conversion factors

Physics 112

Wednesday, April 25/18

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Midterm - Monday, April 30

1. Presentation - Maker Space -> Dylan Howe

2. Return -> FA - 1st Law Problem - Justifications

3. Check
   Worksheets - 1st and 2nd Law Problems

4. FA - Newton's Laws of Motion

5. Concepts: U2 S3 - Introduction to Momentum

6. Momentum

7. Impulse

8. Worksheet: C5 - Momentum -> Page 197: PP #29
   C5 - Impulse -> Page 200: PP #30-32

9. Impulse-Mometum Theorem

10. Worksheets:
    C5 - Impulse-Momentum Page 203: PP #33-35
    C5 - Momentum and Impulse-Momentum Page 209: PFU #37-45

Physics 122

Wednesday, April 25/18

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Midterm - Thursday, April 26/18

1. Midterm Review

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2. Check:
   Worksheet - Current -> Textbook - C15 - Page 696, PP #4-10
   Worksheet - Resistance -> Textbook: C15, Page 708, #16-20
   Worksheet - Ohm's Law -> Textbook: C15, Page 714, #21-25

3. Power - Continue

4. Worksheet - Textbook: Page 737, #40-42
   Page 744, #46-50

5. Series Circuits

6. The VIR Chart

7. Worksheet - (Series) Textbook: Page 719, #27-31

8. Parallel Circuits

9. Worksheet - (Parallel) Textbook: Page 724, C15 - PP#32-35

10. Combination/Complex Circuits

11. Worksheet - (Complex) Textbook: Page 728, #36-37
    Textbook: Page 749, #33-34

12. Worksheets - Circuit #1
    Circuit #2

Physics 122

Midterm Problems

Push/Pull **OR** Incline Plane

Static Torque

Relative Velocity - Boat/Plane

2D Collision/Explosion

Columb's Law - 3 Charges

Electric Field Strength

Science 122
Wednesday, April 25/18

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Midterm - April 30/18

1. Wellness Wednesday Activity

2. Check
   Worksheet - Worksheet - Energy of Photons, Work Function, de Broglie Wavelength, Etc.
   Worksheet - Energy Levels
   FA - Photoelectric Effect and Energy Levels

2. Optional -> Two More Types of Nuclear Reactions: Fission and Fusion

3. Topic - Magnetism

4. Electric Charge Versus Magnetic Poles

5. Lodestone and Ferromagentic Materials

6. Magentic Domains

7. Magnetic Field Lines

8. Electromagnetism

9. Right-Hand Rule #1

10. Solenoid/Electromagnet

11. Right-Hand Rule #2

12. Right-Hand Rule #3

13. Two Current-Carrying Wires

14. Electric Motors