Science 9

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Monday, Nov. 18/19

1. SA - Exploring Space: The Universe and The Solar System

2. Submit: IC - SA -> The Solar System

3. Two Optional Crossword Puzzles - The Universe
   The Solar System

4. Projects - Topics

Physics 112

Monday, Nov. 18/19

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Blocking Off First Half of Lunch Wednesdays Survey - December 10

1. Return:
   FA - Second Law Problems (Type II, III and Combo (II and III))
   Submit LC - Tomorrow

2. Questions?
   Worksheet: U2-S2 -> First Law of Motion
   Second Law of Motion
   Mandatory Problems -> Task Sheet
   Review for SA - U2: S1&2

3. SA - U2: S1&2 -> Date: Wednesday, Nov. 20/19

4. U2 - Section 3 -> Introduction to Momentum

5. Momentum

6. Impulse

7. Worksheet: U2–S3 - Introduction to Momentum
   -> Momentum
   -> Impulse

Physics 122

Monday, Nov. 18/19

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Blocking Off First Half of Lunch Wednesdays

1. Return Tomorrow:
   Experiment 8.1 - Kepler's Laws

2. Return Tomorrow:
   FAs - Horizontal Circular Motion
   - Banked/Unbanked Curves
   } Was Due: Friday, Nov. 15

3. Questions?
   Worksheet - Kepler's Laws
   Worksheet - Universal Law of Gravitation

4. Gravitational Field Strength

5. Calculating the Value of "g"

6. Orbital Speed

7. The Period of an Orbiting Object

8. Worksheets

Science 10

Monday, Nov. 18/19

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Bus Supervision - After School

Blocking Off First Half of Lunch Wednesdays

1. Return:
   FA - Identifying and Counting Digits
   FA - Rounding Measurements

2. Worksheets - Rearranging Equations

3. Topics - SA Physics #1 (See Next Page)

4. Metric Conversions

5. Worksheets - Metric Conversions

6. SA - Physics #1 (Physics to Metric Conversions) - Thursday, Nov.21
   - Topics (See Next Page)

SA - Physics #1 - Topics

1. definitions: physics, physical quantity, significant digits, certainty, exact value, defined value, rounding digit, precision, defining equation, variable, term

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. SDs and operation rules - Certainty Rule
   -> multiplication and division
   -> count total # of significant digits
   -> round to the same number of significant digits as the original measurement with the fewest SDs
   - Precision Rule
   -> addition and subtraction
   -> count # of digits after the decimal
   -> round to the same number of digits after the decimal as the original measurement with the fewest # of digits after the decimal

scientific notation

5. rearrange an equation for a specified variable

6. perform metric conversions using conversion factors