

## Science 9

Wednesday, Nov. 20/19

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### STEM Wednesday

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1. SA - Exploring Space: The Universe and The Solar System
  2. Two Optional Crossword Puzzles - The Universe  
The Solar System
  3. Projects - More Computer Lab Time? ✓
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## Physics 112

Wednesday, Nov. 20/19

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### Blocking Off First Half of Lunch Wednesdays

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1. SA - U2: S1&2

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2. U2 - Section 3 -> Introduction to Momentum
3. Momentum
4. Impulse
5. Worksheet: U2-S3 - Introduction to Momentum
  - > Momentum
  - > Impulse

## Physics 122

Wednesday, Nov. 20/19

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### Blocking Off First Half of Lunch Wednesdays

Survey - Monday, Nov. 25/19

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1. Questions?

Worksheet - Kepler's Laws

Worksheet - Universal Law of Gravitation

Worksheets (2 Practice, 1 Mandatory)

2. FA - Law of Universal Gravitation (Georgia)

FA - Orbital Period, Speed and Acceleration due to Gravity

3. SA - U2 S1&2 -> Tuesday, Nov. 26

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## Science 10

Wednesday, Nov. 20/19

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### Blocking Off First Half of Lunch Wednesdays

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1. Check:  
Review: SA - Physics #1
  2. **SA - Physics #1 (Physics to Metric Conversions) - Thurs., Nov. 21**  
- Topics (See Next Page)
  3. Graphing Basics
  4. Worksheet - Finding Coordinates Small Grids (2)
  5. Character Graph - Submit for Marks (20)  
- Due: Monday, Nov. 25
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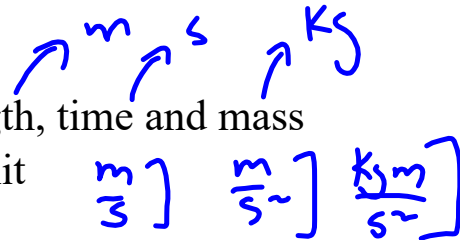
## SA - Physics #1 - Topics

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