

# Physics 112

Tuesday, February 26/19

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1. Question?  
SA - Basic Knowledge and Skills
  2. Check:  
Worksheet - U1 S1: Vector Analysis
  3. Check: Vector Analysis (MC)
  4. Topics: U1 - S1 - Vector Analysis
  5. Concept Sheet - Unit 1 - Section 2: Graphical Analysis
  6. Types of Motion
  7. Directions of Velocity and Acceleration
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8. Position-Time Graphs
  9. Velocity-Time Graphs
  10. Comparing P/T, V/t and A/T graphs
  11. Velocity-Time Graph Calculations
  12. Worksheets: Velocity-Time Graphs (4)

## Topics: U1-S1

1. kinematics ✓
  2. two types of physical quantities:
    - (i) scalar quantity - has magnitude only
      - has units
      - be able to name and give examples of four scalar quantities
    - (ii) vector quantity - has magnitude and direction
      - has units
      - vector notation (ie/  $\vec{v}$ ,  $v$ )
      - conventional directions
      - be able to name and give examples of four vector quantities
  3. arrows are used to represent vector quantities graphically .
  4. resultant - *the sum of vectors*
  5. two graphical methods used to add vector quantities:
    - (i) tip-to-tail method
    - (ii) parallelogram method
  6. determine the range of possible resultant values
  7. adding vectors analytically (follow the rubric) (10 pts).
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# Physics 122

Tuesday, February 26/19

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1. FA - Force Problem - Type I - Pull  
FA - Force Problem - Type I - Push  
FA - Force Problem - Type II - Simple  
FA - Force Problem - Type II - Complex  
FA - Force Problem - Type III - Inclined Plane  
FA - Force Problems - Type I, II and III
  2. Questions?  
Worksheet - Static Torque - #1
  3. Static Torque: Type II Problems
  4. Worksheet - Static Torque #2
  5. FA - Torque #1 and #2 (no justifications required)
  6. SA - U1 S1&2 (Force and Torque)  
- Date: Friday, March 1/19  
\*Alexis - Thursday
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## Science 122

Tuesday, February 26/19

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1. Return: SA -> Optics
  2. Questions?  
Worksheet - Practice Problems on Lenses in Combination  
Worksheet - Extra Problems - Double Lenses
  3. FA - Double Lens Problem
  4. SA - Lenses in Combination (One Problem)  
Date - Thursday.
  5. Topic - Fluid Mechanics
  6. Mass Density
  7. Weight and Mass Density
  8. Specific Gravity
  9. Pressure
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10. Pressure and Depth in a Static Fluid
  11. Worksheet: Problems - Pressure and Depth in a Static Fluid

# Science 10

Tuesday, February 26/19

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1. Return Marks: SA - Chem #1 (Chemistry to B-R Diagrams)
  2. Assignment: Periodic Table of Me, Myself and I  
Date: **Friday, Feb. 22/19 - 1 Day Late**
  3. Questions?  
Worksheet: Bohr-Rutherford Diagrams Atoms to Ions  
Worksheet - Chemistry: Ions and Subatomic Particles
  4. Naming Monatomic Ions
  5. Worksheet #1 - Monatomic Ions
  6. Ionic Bonds
  7. Simple Binary Ionic Compounds
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8. Worksheet #2: Simple Binary Ionic Compounds
  9. Polyatomic Ions
  10. Ionic Compounds Containing Polyatomic Ions
  11. Worksheet #3: Ionic Compounds Containing Polyatomic Ions
  12. Transition Elements
  13. Multivalent Metals and Their Ions
  14. Ionic Compounds Containing Multivalent Metals
  15. Worksheet #4: Ionic Compounds Containing Transition Elements