

Physics 112

Tuesday, February 25/20

1. Return:
FA - Calculate **R**
7 Missing
2. Questions?
IP - U1S2 -> Graphical Analysis
3. FA - Velocity vs Time Graph
Checked in Class - See Next Page for Final Answers
4. SA: U1 S1&2 -> Topics (After Final Answers for V-T FA)
-> **Date: Thursday, Feb. 28**

***Task Sheets**

5. U1-S3: Mathematical Analysis
6. Word Problem Checklist
7. Uniform Motion - Kinematic Equation
8. Uniformly Accelerated Motion - Kinematic Equation #1
Kinematic Equation #2
Kinematic Equation #3
Kinematic Equation #4

FA - Velocity-Time Graph

c) $0.89 \text{ m/s}^2, S$ $- \cancel{0.89 \text{ m/s}^2}$

b) 54 m

c) $6.0 \text{ m}, \underline{N}$

d) 3.0 m/s

e) $0.33 \text{ m/s}, N$

f) $0.52 \text{ m/s}^2, N$

Topics -> SA U1: S1&2

1. kinematics
2. two types of physical quantities:
 - (i) scalar quantity - has magnitude and a unit
 - be able to provide the definitions, symbols, and units of time, distance and speed
 - (ii) vector quantity - has magnitude, direction and a unit
 - vector notation
 - conventional directions
 - be able to provide the definitions, symbols, and units of position, displacement, velocity and acceleration
3. arrows are used to represent vector quantities graphically
4. resultant
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. add vectors analytically (follow the rubric)

8. three types of motion: no motion
 - uniform motion
 - uniformly accelerated motion
9. use direction of velocity and acceleration to describe an object's motion (ie/ complete chart for vehicle)
10. interpret position-time graphs
11. interpret velocity-time graphs
12. obtain information by reading data from a velocity-time graph and performing calculations

Format: MC (multiple choice)

Interpret General P-T and V-T Graphs

Calculate **R** (rubric)

Chart (motion of a vehicle)

Velocity-Time Graph

Physics 122

Tuesday, February 25/20

1. Check:
IP - U1S2 - Static Torque (Type I)
 2. FA: Static Torque (Type I) - Submit Today
 3. Torque Type II - Forces Acting at Angles
 4. **IP - U1S2 - Static Torque (Type II)**
 5. **SA - 2D Forces and Static Torque Problems
(End of the Week)**
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Science 122

Tuesday, February 25/20

1. Check:

IP - Half-Life, Activity and Decay Constant (2)

2. More About Light

3. Quantum Theory

4. Electron-volt

5. Quantization of Energy

6. Photons

7. The Photoelectric Effect

8. Solar Cells

9. Wave-Particle Duality of Light

10. **IP - Energy of Photons, Work Function, Etc.**

Science 10

Tuesday, February 25/20

1. Return:
FA - Atoms and Ions
 2. Ionic Compounds Containing Polyatomic Ions - Continue
 3. [Nomenclature Worksheet #3 -Ionic Compounds Containing Polyatomic Ions](#)
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4. Transition Elements
 5. Multivalent Metals
 6. Ionic Compounds Containing Multivalent Metals
 7. Worksheet #4 - Ionic Compounds Containing Transition Metals
 8. Recap - Types of Ions
 9. Identify Types of Ions
 10. Worksheet #5 - Ionic Compounds Summary
 11. Lots of Ionic Naming Practice Problems
 12. FA - Mixed Ionic Compounds