

Science 10

Monday, February 27/17

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1. Progress Reports
2. Assignment - Your Name in Chemical Symbols
 - Due: Monday, Feb. 20/17
 - 4 Days Late
3. Recap - Types of Ions
4. Assignment - All Ionic Compounds
 - Wednesday, March 1/17
 - Topics
 - Sample Questions
5. Worksheet #5 - Ionic Compounds Summary
Worksheet - Lots of Ionic Naming Practice Problems

6. Covalent Bonds
7. Diatomic Molecules
8. Naming Binary Molecular Compounds
9. Worksheet - Practice: Binary Covalent Compounds

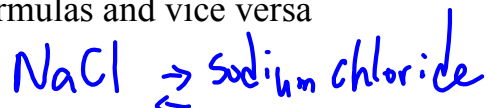
Science 10

Topics -> Assignment: All Ions and Ionic Compounds

1. a) be able to identify monatomic ions
 - b) be able to write the names of monatomic ions given their chemical symbols and vice versa



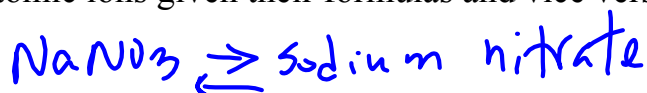
2. be able to write the names of simple binary ionic compounds given their formulas and vice versa



3. a) be able to identify polyatomic ions by their symbols and names ("ate", "ite" and some "ide" endings)



- b) know where to find the names and symbols of polyatomic ions on the purple periodic table
- c) be able to write the names of ionic compounds containing polyatomic ions given their formulas and vice versa



4. a) be able to identify multi-valent metals



- b) be able to write the names of multivalent metal ions using roman numerals given their symbols and vice versa



- c) be able to write the names of ionic compounds containing multivalent metals given their formulas and vice versa

Worksheet #4

5. be able to write the names of ionic compounds containing multivalent metals and polyatomic ions given their formulas and vice versa



Assignment - All Ionic Compounds -> Sample Questions

Types of Ions

Identify each of the following as a monatomic ion (MI), a polyatomic ion (PI), or the ion of a multivalent metal (IMM), by printing MI, PI or IMM on the line provided.

- a) F⁻ MI
- b) lead (II) ion IMM
- c) CNO⁻ PI
- d) sulfite ion PI
- e) Pt²⁺ IMM

MI	PI	IMM
	-ate -ite <u>-ide</u> 3	Roman numeral. I, II, III, IV, V
	NO ₃ ⁻	Cu ²⁺ Cu ⁺

Chemical Formulas to Chemical Names

Name the following ionic compounds.

- a) K₂S potassium sulfide
- b) SnBr₄ tin (IV) bromide
- c) Zn(ClO₄)₂ zinc perchlorate

Chemical Names to Chemical Formulas

Write the chemical formulas for the following ionic compounds.

- a) barium cyanide Ba²⁺ (CN)⁻ => Ba(CN)₂
- b) ammonium phosphide (NH₄)₃P
- c) gold (III) chloride _____
- d) magnesium borate _____

Physics 112

Monday, February 27/17

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1. Directions of Velocity and Acceleration - LHP
2. SA - U1 S1
 - Today, Feb. 27/17
 - 30 minutes
3. U1 - S2 - Graphical Analysis
 - Concept Sheet
4. Position-Time Graphs - To Be Continued

5. Position-Time Graph: Direction of Motion
6. Velocity-Time Graphs
7. Velocity-Time Graph: Direction of Motion
8. Velocity-Time Graph Calculations
9. Worksheet: Velocity-Time Graph #1

Topics: SA U1-S1

1. mechanics, kinematics and dynamics
 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
 - conventional directions
 - be able to name and give examples of four vector quantities
 3. arrows are used to represent vector quantities graphically
 4. resultant
 5. two methods used to add vector quantities:
 - (i) tip-to-tail method
 - (ii) parallelogram method
 6. determine the range of possible resultant values
 7. determine a resultant mathematically (follow rubric) *10pts.*
 8. types of motion - no motion
 - uniform motion
 - uniformly accelerated motion
 9. use directions of velocity and acceleration to describe an object's motion, etc (ie/ van scenario)
-

Format: Multiple Choice (MC)

Short Answer

Chart (ie/ van)

Find \vec{R} (use rubric)

30 minutes



Physics 122

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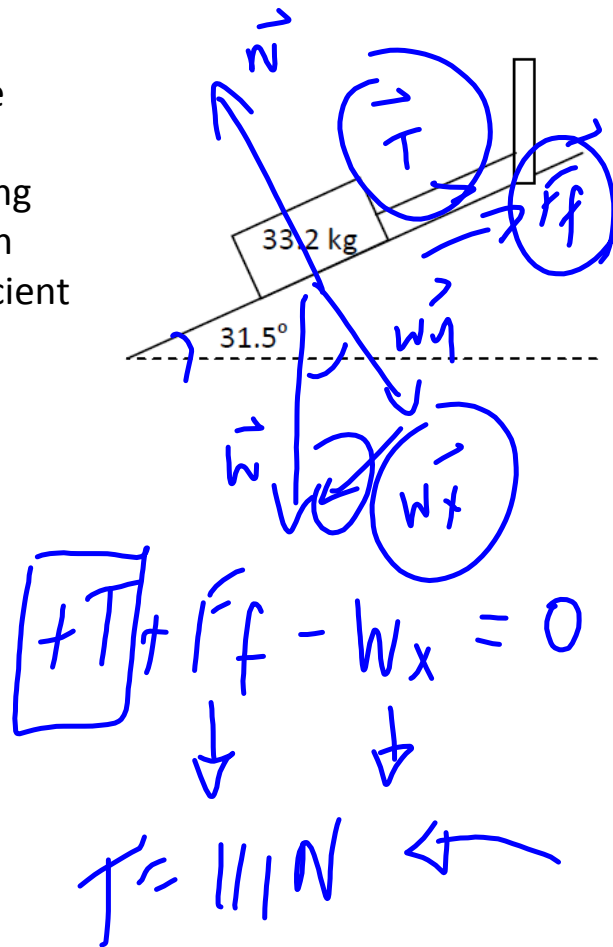


1. Force Problems: Worksheets - Type I, II and III (2)
2. Formative Assessment - Force Problem III: Inclined Plane
3. SA - U1 S1 - 3 Problems (40 minutes)
- Wednesday, March 1/17

4. Unit 1 - Section 2 -> Torque
5. Center of Mass
6. Types of Motion - Translational and Rotational
7. Torque
8. Net Torque
9. Static Equilibrium - Revisited

Formative Assessment - Incline Problem

The block in the diagram is at rest. The tension in the cable is not the only force keeping the block from sliding down the incline. Static friction is also present. If the coefficient of static friction is 0.214 determine the tension in the rope.



The tension is 111 N, up the incline.