

Physics 112

Wednesday, October 31/18

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1. Submit/ Return -> FA - Types of Forces and Weight Problem
FA - Free Body Diagrams
2. Questions?
Worksheet - Practice Problems (PP) - C4, Page 144: 5-8
PFU: Page 151, #26-28, 30-32, 34
3. FA - First Law Problem
4. Newton's Second Law of Motion - Law of Force, Mass and Acc.
- To Be Continued

5. Worksheet Packet - Second Law Problems

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1. Submit/Return - FAs - Relative Velocity (3)
 - FA - 1D Explosion
 - FA - 1D Collision and Type of Collision
 2. Worksheets - 2D Collisions and Explosions (2)
 3. FA - 2D Collision
 4. FA - 2D Explosion
 5. FA - Mixed Rel. Vel. and Collisions/Explosions
 6. SA - U1 S3&4 - Relative Velocity and Collisions/Explosions
- Date: Thursday, Nov. 1
 1. relative velocity - // directions
 2. relative velocity \perp directions (boat/plane)
 3. relative velocity - intersection problem
 4. 1D collision/explosion with type
 5. 2D collision
 6. 2D explosion
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Science 10

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1. FA - Identifying Types of Reactions and Balancing
FA – Translating Reactions
FA - Predicting Products
2. Review SA - Chem #3
3. SA - Chem #3 - Date: Thursday, Nov. 1

Topics: SA - Chem #3

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1. ionic compounds - electrically neutral
2. be able to write the names of simple binary ionic compounds given their formulas and vice versa
3. be able to write the names of ionic compounds containing polyatomic ions given their formulas and vice versa
4. know the roman numerals 1-10
5. be able to write the names of ionic compounds containing multivalent metals given their formulas and vice versa
6. be able to write the names of ionic compounds containing multivalent metals and polyatomic ions given their formulas and vice versa
7. molecular compounds = covalent compounds = molecules
8. prefixes 1-10
9. diatomic molecules: H_2 , N_2 , O_2 , F_2 , Cl_2 , Br_2 , I_2
10. special molecules: P_4 , S_8 , water, ammonia, hydrogen peroxide
11. be able to write the names of binary molecular compounds given their formulas and vice versa
12. identify ionic compounds and molecular compounds
13. define chemical reaction
14. identify reactants and products
15. be able to state the Law of Conservation of Mass
16. be able to balance chemical reactions
17. be able to identify the five types of reactions (formation, decomposition, single replacement reactions, double replacement reactions and combustion reactions)
18. be able to translate sentences and/or word equations to balanced chemical equations
19. be able to predict the products of chemical reactions.