# Science 10 Thursday, April 5/18

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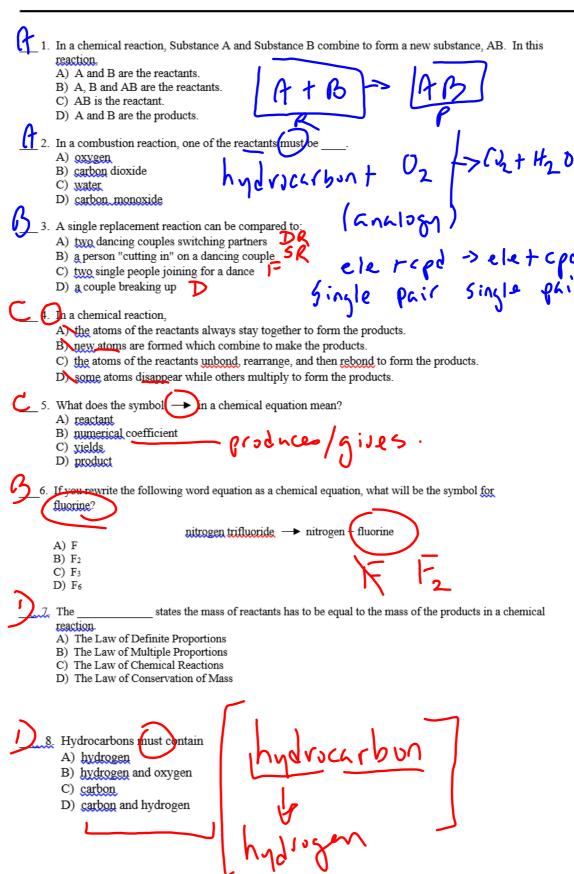
- 1. Check: Review - SA Chem #2
- 2. SA Chem #2 Friday, April 6/18
- 3. Translating Word Equations
- 4. Worksheet Translating Word Equations
- 5. Predicting Products
- 6. Worksheet Predicting Products

#### Science 10

#### Review for SA: Chem #2

#### Part 1 - Multiple Choice

Print the letter of the best answer on the line provided.



Part 2 - Names and Chemical Formulas

Complete the table below.

Name of Compound	Formula of Compound
silver phosphile	metal = ionic upl
bismuth (V) Shifate	hetal > Inic epd.
ammonium Jelenide	(NH4)+1 52-, -> (NH4) 25e
nitagen triiodide	nonmetal > mol. cpd ( platices)
he ful chloride	2 n2t C/= -> 2nC/2
diselenium hexasulfide	nonmetal > mol. cpd > flet.
barjum borate	Ba 1 (Buz) 2
tetrabromine octodhloride	Bry Cla don't reduce
penta phosphorous decaox	ile non netal omt cod lore 1
Manganes e( IV) (a/bonat	<b>▼</b> • • • • • • • • • • • • • • • • • • •
iron (III) arsenide	Fe3+ A5-3-> FeAs.

## Part 3 - Identifying and Balancing Chemical Equations

- I. Indicate the type of each equation by printing F (formation), D (decomposition), SR (single replacement), DR (double replacement) or C (combustion) on the line provided.
- II. Balance each reaction.

# Physics 112

Thursday, April 4/18

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- 1. SA: U1-S3 Mathematical Analysis
- 2. Unit 2 Dynamics
- 3. Concept Sheet: U2 S1 Introduction to Forces
- 4. Introduction to Forces
- 5. Applied Force
- 6. Force of Gravity
- 7. Worksheet Practice Problems (PP) C4 Weight Page 137: 1-4
- 8. Normal Force
- 9. Tension
- 10. Force of Friction
- 11. Handout Coefficients of Friction
- 12. Free Body Diagrams

## Physics 122

Thursday, April 5/18

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## 1. Check:

Worksheet - Elastic and Inelastic Collisions Worksheets - 2D Collisions and Explosions

2. FA - 1D Collision and Type

FA - 2D Explosion

3. SA - Unit 1 - S3&4

- Fiday. Pob. - only.

Relative Velocity - Parallel Directions

Relative Velocity - Boat/Plane

Relative Velocity - Intersection

1D Collision/Explosion with Type

2D Collision

2D Explosion

4. Unit 3 - S1: Electrostatics

# Formative Assessment - 1D Collision and Type (DE4.1 and DE4.3)

A 92.0 kg football player running at 6.50 m/s south collides with an 85.0 kg football player running at 3.00 m/s north. The 92.0 kg football player continues moving at a velocity of 2.00 m/s south after the collision.

- a) What is the velocity of the 85.0 kg football player after the collision?
- b) What type of collision occurred? Justify your answer mathematically.

## Formative Assessment: 2D Explosion (DE4.5)

A 5.0 kg bomb at rest explodes into three pieces, each of which travels parallel to the ground. The first piece, with a mass of 1.2 kg, travels at 5.5 m/s at an angle of 20° south of east. The second piece has a mass of 2.5 kg and travels 4.1 m/s at an angle of 25° north of east. Determine the velocity of the third piece.

# Physics 122 - 2D Explosions

5. A bomb sitting at rest on a table explodes into four pieces of equal mass. The first piece travels to the South at a velocity of 55.0 m/s. The second piece travels to the West at a velocity of 80.0 m/s. The third piece travels at a velocity of 40.0 m/s [30.0° W of N]. What is the velocity of the fourth piece? (102, m/s, 11.5° MGE)

6. A 200 kg bomb moving at a velocity of 10.0 m/s to the West explode into three pieces. The first piece has a mass of 100 kg and moves to the West with a velocity of 90.0 m/s. The second piece has a mass of 55.0 kg and moves at an angle of 30.0 N of E with a velocity of 55.0 m/s. What is the velocity of the third piece? (10.3 m 15) (19.0 5)

## Science 122 Thursday, April 5/18

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#### 1. Check:

Worksheet - Pressure and Depth in a Static Fluid

Worksheet - Archimedes' Principle

Worksheet - More Hydrostatic Fluid Problems

Worksheet - Section 11.8 - The Equation of Continuity

Worksheet - Section 11.9 - Bernoulli's Equation

Worksheets - Fluids - Continuity and Bernoulli's Equations

## 2. SA - Fluid Mechanics

- Friday, April 6/18 -> 7 Problems

hydrostatic fluid
Pascal's Principle
partially submerged object
apparent weight
completely immersed object
mass flow rate
continuity equation
volume flow rate
Bernoulli equation