Science 10

Tuesday, April 3/18

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1. Check:

Worksheet: Single and Double Replacement Reactions

Worksheet: Combustion Reactions

- 2. Identifying Reactions Types
- 3. Worksheet: Identifying Reaction Types
- 4. SA Chem #2 Topics
 - Complete Review
 - Thursday, April 5/18 friday, April 6/18
- 5. Translating Word Equations
- 6. Predicting Products

Physics 112

Tuesday, April 3/18

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1. Questions?

Worksheet - Motion Problems

Worksheet - Objects in Free Fall

Worksheet - Extra Uniformly Accelerated Problems

- 2. SA: U1-S3 Topics
 Wednesday, April 4/18

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

Physics 122

Tuesday, April 3/18

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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

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

4. A 400 kg bomb sitting at rest on a table explodes into three pieces. A 150 kg piece moves off to the East with a velocity of 150 m/s. A 100 kg piece moves off with a velocity of 200 m/s [30.0° S of W]. What is the velocity of the third piece? (75.1 m 15.62,62,60 Mg)

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° M° E)

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? (143 m 15, 19.0 5 7 E)

Science 122

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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

- Your Choice: Thursday or Friday - 6 or 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