

Physics 112

Monday, October 23/17

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1. Return Marks -> SA: U1- S3
-> Four still to write.
2. Check -> Worksheet - Weight (PPs from Text)
3. Formative Assessment - Weight Problem
4. Normal Force
5. Tension
6. Force of Friction - To Be Continued

7. Free Body Diagrams (FBDs)
8. Worksheet - FBDs

Formative Assessment - Weight Problem (O23/17)

A space ship has a weight of magnitude 8.82×10^4 N on the surface of the Earth. The space ship is launched from Earth and lands on a distant planet where it has a weight of magnitude 3.90×10^5 N. What is the acceleration due to gravity on this planet?

Physics 122

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1. SA - U1: S3&4 -> Tuesday, October 24/17
-> Format: MC (max 10) and 4 Problems
 2. Questions re Relative Velocity or 1D/2D Collisions/Explosions?
 3. FA - 1D Collision
FA - 2D Explosion
-
4. Results?
Experiment 9.1 - Conservation of Momentum (Page 55)
 5. Unit 2 - Projectiles, Circular Motion and Universal Gravitation
 6. U1 - S1 - Uniform Circular Motion
 7. Uniform Circular Motion
 8. Horizontal Circular Motion
 9. Centripetal Acceleration
 10. Centripetal Force

FA - 1D Collision

A 92.0 kg football player running at 6.50 m/s south collides with an 85.0 kg football player running at 6.00 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

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.

Science 10

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1. Return Marks: SA - Chem #2
2. Ionic vs Molecular Compounds
3. [Worksheet: Translating Word Equations - HW](#)

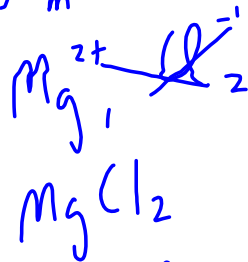
4. Predicting Products
5. Worksheet: Predicting Products

Types of Compounds

Ionic
 Starts with
 ① metal
 ② ammonium / NH_4^+

Molecular
 starts with
 ① non-metal
 ② metalloid.

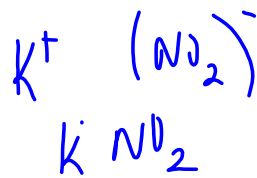
Name \rightarrow Formula
 magnesium chloride



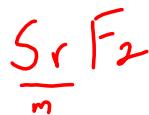
iron (II) chloride



potassium nitrite



Formula \rightarrow Name



Strontium fluoride



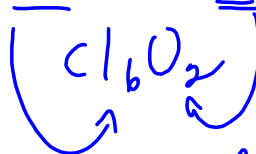
Aluminum nitrate

* Prefixes

- | | |
|-----------|------------|
| 1 = mono | 6 = hexa |
| 2 = di | 7 = hepta |
| 3 = tri | 8 = octa |
| 4 = tetra | 9 = nona |
| 5 = penta | 10 = deca. |

Name \rightarrow Formula

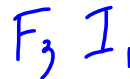
hexachlorine dioxide



Iodine trifluoride



trifluorine moniodide



Formula \rightarrow Name



pentabromine nonahydride