

Science 10

Thursday, March 22/18

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Redo Request Forms for SA Chem #1

1. FA - Counting Atoms
 2. Check
Worksheet - Balancing Simple Chemical Equations - Front Side
 3. More Examples - Balancing Chemical Equations
 4. Worksheet - Balancing Simple Chemical Equations - Back Side
 5. More Worksheets -> Balancing Chemical Equations
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Physics 112

Thursday, March 22/18

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Redo Request Forms - Redo: Friday at noon

1. Return FA - Uniformly Accelerated Motion (K3.8)
Uniformly Accelerated Motion (K3.9) - Justifications
 2. Uniformly Accelerated Motion (UAM) - Kinematic Equation #4
 3. Example: UAM - Kinematic Equation #4
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4. Worksheet - Motion Problems #10-18
 5. The Rock
 6. Handout - Ball Toss
 7. Acceleration Due to Gravity
 8. Freely Falling Bodies
 9. Worksheet - Objects in Free Fall
 10. SA: U1-S3 - Topics

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Worksheet Motion Probs.

#12. Sketch: $\vec{v} \oplus$ $\vec{a} \oplus$ → east
speeds up

$v_1 = +22 \text{ m/s}$

$a = +14 \text{ m/s}^2$

$t = ?$

$d = +26 \text{ m}$

$d = v_1 t + \frac{1}{2} a t^2$

$26 = 22t + \frac{1}{2}(14)t^2$

$26 = 22t + 7t^2$

$0 = 22t + 7t^2 - 26$

$7t^2 + 22t - 26 = 0$

a	t^2	$+ b$	t	$+ c$	$= 0$
7	t^2	$+ 22$	t	$- 26$	$= 0$

$t = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$t = \frac{-22 \pm \sqrt{22^2 - 4(7)(-26)}}{2(7)}$

$t = \frac{-22 \pm \sqrt{1212}}{14}$

$t = \frac{-22 \pm 34.8}{14}$

$t = \frac{-22 + 34.8}{14}$

~~$t = \frac{-22 - 34.8}{14}$~~
 $t = \ominus$

$t = 0.91 \text{ s}$

WS.

Physics 122

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1. Check
Worksheet - Relative Velocity (Textbook Problems)
Worksheets - More Relative Velocity Problems
2. U1 - Section 4: Collisions/Explosions
3. Momentum Revisited
4. Conservation of Momentum
5. Types of Collisions and Explosions
6. 1D Collisions and Explosions - Examples
7. Worksheet: Momentum - Collisions in 1D -> Try Odd #'s

tip-to-tail

$$\vec{V}_{bs} = \vec{V}_{bw} + \vec{V}_{ws}$$

① \vec{V}_{bw} and \vec{V}_{ws} are //.
- sub in directly

② right angle.
→ sketch $\begin{cases} \cos \theta \\ \sin \theta \end{cases}$
→ L.P and $\begin{cases} \cos \theta \\ \sin \theta \end{cases}$

Science 122

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1. Apparent Weight
 2. Worksheet - Archimedes' Principle
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3. Worsksheet - More Hydrostatic Fluid Problems