Science 10

Tuesday, March 20/18

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1. Return -> SA - Chem #1
2. Worksheet: Counting Atoms in Compounds
3. FA - Counting Atoms - Tomorrow
4. Evidence of a Chemical Reaction - Continue
5. Law of Conservation of Mass
6. Chemical Equations
7. Balancing Chemical Equations
8. Examples - Balancing Chemical Equations
9. Worksheets - Balancing Simple Chemical Equations
   - Try Front Side

Physics 112

Tuesday, March 20/18

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1. Questions?
   SA - Unit: S1&S2

2. Return -> FA - Uniformly Accelerated Motion (K3.8)
   - Justifications

3. Check
   Worksheet - Motion Problems #7-9

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4. FA - Uniformly Accelerated Motion (K3.9)

5. Uniformly Accelerated Motion (UAM) - Kinematic Equation #3

6. Example: UAM - Kinematic Equation #3

7. Quadratic Formula

8. Worksheet - Motion Problems #10-15

9. Uniformly Accelerated Motion (UAM) - Kinematic Equation #4

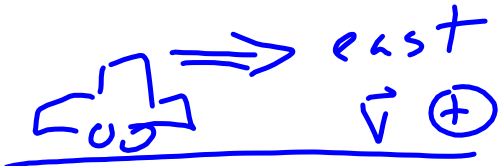
10. Example: UAM - Kinematic Equation #4

11. Worksheet - Motion Problems #16-18

Formative Assessment – Uniformly Accelerated Motion (K3.8)

A car was traveling along Pleasant Street at a constant speed when the driver stepped on the brake slowing the car at a rate of 3.0 m/s^2. The speed of the car after 7.9 s was 6.3 m/s. What was the initial velocity of the car?

sketch:



$\vec{v}_i = ?$

$\vec{v}_f = +6.3\ m/s$

$t = 7.9\ s$

$\vec{a} = -3.0\ m/s^2$

$\vec{v}_f = \vec{v}_i + \vec{a}t$ ①

$\vec{v}_f - \vec{a}t = \vec{v}_i$

$\vec{v}_i = \vec{v}_f - \vec{a}t$

$\vec{v}_i = (6.3) - (-3.0)(7.9)$

$\vec{v}_i = +30\ \frac{m}{s}$

The initial velocity was 30 m/s, east.

Physics 122

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1. Return -> FA - Torque #1 and #2 -> Tomorrow

2. Check
   Worksheet - Relative Velocity (Textbook Problems)

3. Intersection Problems

4. Worksheets - More Relative Velocity Problems

Science 122

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Elvis - A Little Less Conversation

1. Check
   Worksheet - Pressure Problems (Cutnell Text)

2. Pressure Gauges -> Mercury Barometer
   -> Open-Tube Manometer

3. Pascal's Principle

4. Hydraulic Lift

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5. Buoyancy and Archimedes' Principle