Science 10
Monday, March 19/18

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Course Selection Evening -> 5:30 to 7:30

1. Return -> Marks -> SA - Chem #1

2. Counting Atoms

3. Worksheet: Counting Atoms in Compounds

4. Chemical Reactions

5. Evidence of a Chemical Reaction - To Be Continued

6. Law of Conservation of Mass

7. Chemical Equations

8. Balancing Chemical Equations

9. Examples - Balancing Chemical Equations

10. Worksheet – Balancing Simple Chemical Equations

Physics 112

Monday, March 19/18

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Course Selection Evening -> 5:30 to 7:30

1. Return -> SA - Unit: S1&S2

2. Check -> Worksheet - Motion Problems #1-6

3. FA – Uniformly Accelerated Motion (K3.8)

4. Uniformly Accelerated Motion (UAM) - Kinematic Equation #2

5. Example: UAM - Kinematic Equation #2

6. Worksheet - Motion Problems #7-9 - Complete for Tuesday

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

8. Example: UAM - Kinematic Equation #3

9. Quadratic Formula

10. Worksheet - Motion Problems #10-15

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

12. Example: UAM - Kinematic Equation #4

13. Worksheet - Motion Problems #16-18

Worksheet Motion Prob.

#6.   Sketch:

east

$\vec{v}$ ⊕

slow down

$\vec{a}$ ⊖
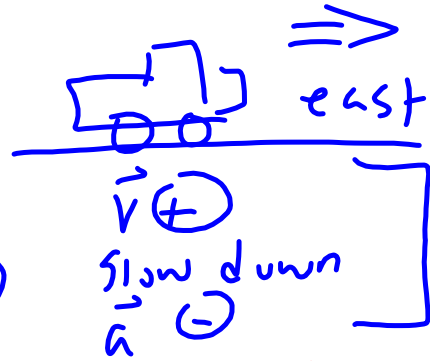
$\vec{v_i} = +19 \ m/s$ ①

$\vec{v_f} = +6.0 \ m/s$

$\vec{a} = \ominus 2.8 \ m/s^2$ ①

$t = \ ?$

$\vec{v_f} = \vec{v_i} + \boxed{\vec{a} \ t}$ ①

$\dfrac{\vec{v_f} - \vec{v_i}}{\vec{a}} = \boxed{\dfrac{\vec{a} \ t}{\vec{a}}}$ ①

$t = \dfrac{6.0 - 19}{-2.8}$ ①

$t = \dfrac{4.6}{2 \ SD} \ s$ ①

It took 4.6 s ⊙ ①

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?

Physics 122
Monday, March 19/18

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1. Return -> SA - Force and Static Torque Problems
   FA - Torque #1 and #2

2. Velocities at Angles - Continue

3. Examples - Velocities at Angles

4. Worksheet - Relative Velocity (Textbook Problems)

Science 122
Monday, March 19/18

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1. Return -> SA: Optics

2. Worksheet - Pressure Problems (Cutnell Text)

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

4. Pascal's Principle

5. Hydraulic Lift

6. Buoyancy and Archimedes' Principle