Science 10

Wednesday, February 15/17

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1. Assignment - Autobiographical Poem
   - Due: Monday, February 6/17
   - 4 Days Late

2. Assignment #1 - Chemistry to Atomic Number
   - Due Today -> Place in Drawer for Marking

3. Worksheet #1 - Monatomic Ions

4. Assignment - Your Name in Chemical Symbols
   - Due: Friday, Feb. 17/17

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5. Ionic Bonds

6. Simple Binary Ionic Compounds

7. Worksheet #2 - Simple Binary Ionic Compounds

8. Polyatomic Ions

9. Ionic Compounds with Polyatomic Ions

10. Worksheet #3 - Ionic Compounds with Polyatomic Ions

Physics 112

Wednesday, February 15/17

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1. Assignment - Alphabetical Autobiography
   - Due: Monday, Feb. 6/17
   - 4 Days Late

2. Check -> Worksheet - Conversions and Rearranging Formulas

3. Summative Assessment - Basic Skills
   - Topics
   - Friday, Feb. 17/17

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4. Big Table of Concepts

5. Concept Sheet: Unit 1 - Kinematics
   Section 1 - Vector Analysis

6. Mechanics

7. Types of Physical Quantities

8. Vectors: Direction, Notation and Representation

9. Adding Vectors Graphically

10. Worksheet - Order of Vector Addition

11. Range of Resultant Magnitudes

SA: Basics Skills - Topics

1. physics - definition
2. physical quantity - definition
3. motion vocabulary - symbols, units, definitions
4. scientific notation - general form, calculator $1.23 \times 10^{3}\ kg$
5. SI system - quantities and 7 base units (names/symbols)
   - derived units m/s [1N = 1kg m/s²]
6. SI prefixes - names, symbols and powers of ten
7. metric conversions (3) 52.0 m 3SD
8. accuracy/precision def.
9. significant digits - in a given measurement
   - precision (+ and -) & certainty (x and ÷) rules
10. rearranging equations (3)

$v_f = v_i + at$ [v_i]

$v_f - at = v_i$

$A = \frac{1}{2}h(a+b)$

Physics 122

Wednesday, February 15/17

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1. Return: FA ->Finding $\vec{R}$ Using Perpendicular Components
2. FA - Type I
3. Force Problem -Type II: Suspended Objects - Simple
4. Worksheet - Type II: Suspended Objects - Simple - HW
5. Force Problem - Type II: Suspended Objects - Complex
6. Worksheet - Type II: Suspended Objects - Complex - HW

Physics 122
FA - Finding $\vec{R}$ Using Perpendicular Components
Monday, Feb. 14/17

Three forces act simultaneously on point P. The first force is 10 N east. The second force is 15 N south. The third force is 28 N, 46° S of E. Find the resultant force. (46 N, 50° S of E)

Formative Assessment - Type I - Force Problem
Wednesday, Feb. 15/17

A block is pulled along a horizontal surface by a string. The string makes an angle of 30º to the horizontal and is pulled by a 100 N force. If the coefficient of friction between the surface and block is 0.23, and the magnitude of the acceleration of the block is 1.7 m/s², what is the mass of the block? (25 kg)