Science 10
Tuesday, February 13/18

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1. Assignment - What's in a Name?
   - Due: Feb. 12/18
   - 1 Day Late

2. FA - Periodic Table of Elements

3. Summary - Practice - Chemistry Worksheets
   Duo-tangs: Practice Worksheets

4. Worksheet - Chemistry: Ions and Subatomic Particles: Practice

5. Prefixes

6. Naming Monatomic Ions

7. Worksheet #1 - Monatomic Ions - Practice

8. Assignment - Your Name in Chemical Symbols
   - Due: _____

9. Ionic Bonds

10. Simple Binary Ionic Compounds

11. Worksheet #2 - Simple Binary Ionic Compounds - Practice

12. Polyatomic Ions

13. Polyatomic Ion Bingo

14. Ionic Compounds Containing Polyatomic Ions

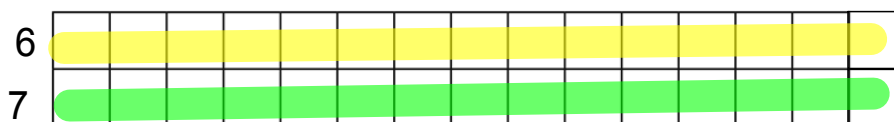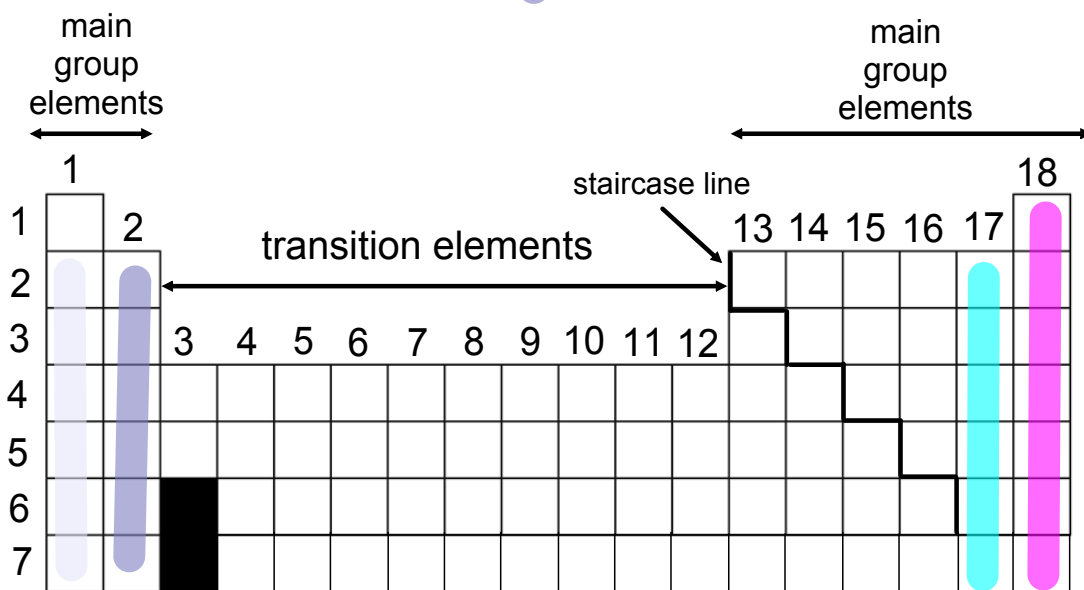15. Worksheet #3 - Ionic Compounds Containing Polyatomic Ions

Science 10
FA - Periodic Table of Elements

Name -_____

1. Choose a color for each family/period then color the table accordingly.

lanthanides ⭘   actinides ⭘
halogens ⭘   noble gases ⭘
alkaline earth metals ⭘   alkali metals ⭘

2. Elements can be metals, nonmetals or metalloids. For each element below identify what it is by writing metal, nonmetal or metalloid on the line provided.

a) neon _____nonmetal_____
b) potassium _____metal_____
c) chlorine _____nonmetal_____
d) boron _____metalloid_____
e) aluminum _____metal_____
f) silicon _____metalloid_____
g) hydrogen _____nonmetal_____

Physics 112

Tuesday, February 13/18

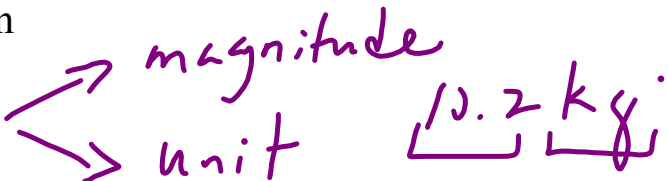http://mvhs.nbed.nb.ca/

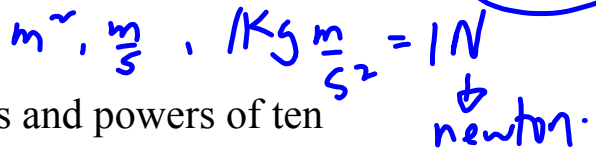http://mvhs-sherrard.weebly.com/

1. SA - Basic Skills: Wednesday, Feb. 14/18

2. Physical Quantities to Know - Continue

3. Adding Vectors Graphically

4. Worksheet - Order of Vector Addition

5. Range of Resultant Magnitudes

6. Review: Law of Pythagoras and Primary Trig Ratios
   To Be Continued

7. Adding Vectors Analytically

8. Worksheet – U1-S1: Vector Analysis

SA: Basics Skills - Topics

1. physics - definition

2. physical quantity - definition

3. measurements - two parts

   → magnitude
   → unit   10.2 kg

4. scientific notation

5. accuracy/precision - definitions, interpret scenario

6. significant digits - in a given measurement
   - Precision (+ and -) & Certainty (x and ÷) Rules

7. SI system - quantities and 7 base units (names/symbols) Chart
   - derived units $m^~$, $\frac{m}{s}$, $1 Kg \frac{m}{s^2} = 1 N$

8. SI prefixes - names, symbols and powers of ten   ↳ newton.

9. metric conversions - 1 step
   - 2 steps
   - m/s ⟷ km/h

10. rearranging equations

Physics 122
Tuesday, February 13/18

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1. Return: FA - DE1.1 and DE1.2 Justifications

2. FA - Type I: Pull Problem
   FA - Type I: Push Problem

3. Check
   Worksheet - Type II - Simple

4. Type II: Suspended Objects - Complex - To Be Continued

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5. Example - Type II: Suspended Objects - Complex

6. Worksheet - Type II - Complex

7. Type III: Inclined Planes

Formative Assessment - Type I: Pull Problem (DE1.3)

A block is pulled along a horizontal surface by a string. The string makes an angle of 30° 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/s, what is the mass of the block?

Formative Assessment - Type I: Push Problem (DE1.4)

A man pushes a 15 kg lawnmower with a force of 98 N directed along the handle which is at an angle of 34° to the horizontal. If the acceleration of the lawnmower is 1.1 m/s², what is the coefficient of friction between the tires and grass?

Science 122
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1. Return - FA - Snell's Law
        FA - Plane Mirror
        FA - Spherical Mirrors - Ray Diagrams

2. Check
    Worksheet - Spherical Mirrors - Practice

3. Locating an Image Formed by a Convex Lens

4. Convex Lens - 5 Ray Diagrams

5. Concave Lens and Ray Diagram

6. Lens Equation, Magnification and Sign Conventions