Physics 112

Thursday, February 14/19



- Questions?
 Worksheet Conversions and Equations
- 2. FA Metric Conversions and Rearranging Equations
- 3. Handout: Physics to Metric Conversions (Checked in Class)
- 4. SA Basic Knowledge and Skills
 - Topics
 - Date: Thursday, Feb. 21/19
- 5. Unit 1 Section 1: Vector Analysis Concept Sheet
- 6. Mechanics
- 7. Types of Physical Quantities
- 8. Vectors: Direction, Notation and Representation
- 9. Physical Quantities to Know
- 10. Adding Vectors Graphically

Topics - SA: Basics Knowledge/Skills

- 1. physics definition
- 2. metrology definition
- 3. physical quantity definition
- 4. measurements two parts
- 5. scientific notation
- 6. accuracy/precision definitions, interpret scenario
- 7. percent error calculation
- 8. significant digits in a given measurement
 Precision (+ and -) & Certainty (x and ÷) Rules
- 9. SI system quantities and 7 base units (names/symbols) derived units
- 10. SI prefixes names, symbols and powers of ten
- 11. metric conversions 1 step
 2 steps
 m/s ← km/h
- 12. rearranging equations

Physics 122

Thursday, February 14/19

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

- 1. FA Force Problem Type I Pull FA Force Problem Type I Push
- 2. Questions?
 Worksheet: Type II (Suspended Objects Complex)
- 3. FA Force Problem Type II Simple FA Force Problem Type II Complex
- 4. Type III: Inclined Plane Problems
- 5. Worksheet: Type III (Inclined Planes)

Science 122 Thursday, February 14/19

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

- 1. Questions?
 - Worksheet Convex and Concave Lenses
 - All Mirrors and Lenses
- 2. FA Ray Diagrams: Convex and Concave Lenses
- 3. Lenses in Combination
- 4. Worksheet Practice Problems on Lenses in Combination Worksheet Extra Problems Double Lenses
- 5. Review Problems (Mirrors and Lenses)

Science 10

Thursday, February 14/19

http://mvhs.nbed.nb.ca/
http://mvhs-sherrard.weebly.com/

- Assignment Autobiographical Poem
 Days Late
- 2. Return and Review: FA Chemistry to Chemical Symbols
- 3. Questions? Worksheet: Bohr-Rutherford Diagrams
- 4. SA Chem #1
 - Topics
 - Date: To Be Determined
- 5. Assignment: Periodic Table of Me, Myself and I Date: Tuesday, Feb. 19/19
- 6. FA Standard Atomic Notation and Bohr-Rutherford Diagrams
- 7. Review: SA Chem #1

| Science 10 Formative Assessment – Chemistry to Chemical Symbols

Name	Date	
Complete	each statement with a word from the box below that makes each states	nent true.
	symbol electron subatomic neutron chemistry element proton nucleus atoms capitalized matter	
	Eirst letter of a chemical symbol is always (Left the content of the cont	
	e are three particles smaller than an atom. They are called Swok form cles. - 0 5 5 6 6 6 6 6 6 6	hn hn
	sitively charged particle in the nucleus of an atom is called a(n) Substantial to the nucleus of a nucleus of an atom is called a(n) Substantial to the nucleus of an atom is called a(n) Substantial to the nucleus of an atom is called a(n) Substantial to the nucleus of an atom is called a(n) Substantial to the nucleus of an atom is called a(n) Substantial to the nucleus of an atom is called a(n) Substantial to the nucleus of an atom is called a(n) Substantial to the nucleus of a not of	ic.
f)	Chemistry is the study of matter. center or core of an atom is called its	
h) A(n) down	element is made up of atoms and cannot be chemically into simpler substances.	/ broken
i) A(n) _ atom	s lection is found in an orbit surrounding the nucleus beautral subatomic particle is called a(n) (newtron)	f an
k)	is anything that takes up space and has mass.	

Proton - rentron - electron

Topics: SA - Chem #1

- 1. chemistry
- 2. matter
- 3. types of properties: physical and chemical
- 4. types of changes: physical and chemical
- 5. atoms -> building blocks of matter
 - -> three subatomic particles: p⁺, n, e
 - -> locations of three subatomic particles
 - -> electrically neutral: $\#p^+ = \#e^-$
- 6. element
- 7. chemical symbols
- 8. periodic table of the elements periods (rows)
 - groups/families (columns)
 - family and period names
 - location of metals, nonmetals and metalloids
 - gharacteristics of metals and nonmetals
- 9. atomic number = number of protons
- 10. standard atomic notation
- 11. Bohr-Rutherford Diagrams

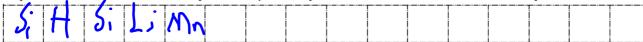
Periodic Table of Me, Myself, and I.

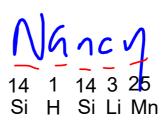
Identify the element whose atomic number is the same as: (If the question does not apply to you, write "n/a" in the next column.)	Atomic Number	Chemical Symbol	Element Name
your age.	50	50	tin
the day you were born.	10		
the month you were born.	7		
the last two digits of the year you were born.	68		
the grade you are currently in.	NIA	NIA	~//
the number of siblings you have.	3.		
the number of pets you have.	//		
your favorite number.	10		
the grade percentage you hope to earn in science this semester.	MIA		

Below, number letters of the alphabet from 1-26. The first three have been done for you.

<u>A</u> 1	™	<u>ပ</u> ုဒ္	40	E/	FL	ᆔ	ı V	Ī	7 7 7	<u>K</u> //	トレ	ı™ S
74										2 <u>X</u>	2 <u>4</u> 5	Z 26

These numbers represent the atomic numbers of elements. Now use this code to assign each letter of your first name a chemical symbol. Spell out your secret first name in chemical symbols below.





Is it possible to spell your first name using chemical symbols? For example, Cathy can be written as Ca Th Y (Ca=Calcium, Th=Thorium, Y=Yttrium).

Na N C Y

If not, spell out your name using the chemical symbols but highlight the letters of your name. For example, Derek can be written $\underline{D}y$ $\underline{E}r$ $\underline{E}u$ \underline{K} (Dy=Dysprosium, Er=Erbium, Eu=Europium, K=Potassium). Do the same with your last name.

SHErRaDy

Na	<u>N</u>	<u>C</u>	<u>Y</u>	<u>S</u>	<u>H</u>	<u>Er</u>	Ra	<u>D</u> y			