Grade 10 Academic

- Enjoyment from learning about the field of Science WHAT HAVE YOU LEARNED ??

I enjoy challenging my mind with new ideas and concepts I WILL CHALLENGE YOUR MIND

I will assign work to do at home very often ... You need to ask

questions if you don't understand something!

Prioritize Your Work

Many of you will have tests and assignments due the same day!

BECOME INDEPENDENT

Online textbook and solutions, tutorials, handouts, Notes

My Website ... Textbook Website ... Janzeis Website

Homework: Intro to Science Worksheets Time permitting

No Homework was assigned!

What is Science?

Terms on the Board from worksheets

Handout Worksheets (4 onto 1) with solutions?

Textbook Reference: Appendix \_\_\_\_

Design Your Own Experiment
- get them thinking about some ideas

Did not get to ... Tomorrow

Practic	e Making Your Experiment
	Design Your Experiment Handout
	Safety Symbols + Notes WHMIS - Friday
	Graphing
	- what does it tell us

Textbook Scavenger Hunt	
- Handout 4 pages	

Unit 1: Chemistry 1. Physical vs Chemical - properties, change - Matter categories 2. The Atom - Counting Protons, Electrons, Neutrons - Memorizing Elements

The Periodic Table

- · groups, periods, names,
- · Metals non metals metalloids

B-R+Lewis Diagrams

· Models - used to simplify complex ideas

Worksheets - P/T + BR Diagrams

## 1. Looked at Homework Completion

2. Using the PHT to draw B-R diagrams
- shells, Valence electrons

3. Why do elements react?

- Stable electron configuration

- Just like the Noble gases

4. Begin Bonding

- Ionic bonding - Metals -> Cations

Non Metals -> Anions

- Examples of ionic bonding Lif, BeO, MgCl, , Al, S3 Continue with Bonding ...

- Take up previous day examples
- Forming the Ionic Bond
- Structures of Ionic Compounds

Covalent Bonding

- 2 non metals both trying to gain electrons
- sharing is the end result of 2 non metals becoming Stable
- Examples: Cls, Os, Hoo, Co2

1. Take up examples of covalent	bonding
2. Properties of Ionic + Molecular	Compands
2. Properties of Ionic + Molecular -Read textbook	
3. Begin Naming	

1. Naming Ponic Compounds	
-binary)	
- Identify charge of ion > Formulas	
- crossover rule	
- Naming ionic compounds	
2. Up to practice table #3	

1. Review Ionic name and formula	
2. Mokcular Compounds	
3. Polyatomic ions	

1. Naming Quiz
2. Transition Metals
3. Putting it together - review sheet
4. More naming practice
5. Test on naming - Friday or Monday

- 1. Provide answers for practice test
- 2. More practice on page 171
- 3. Chemical reactions (Ch. 4.3)
- 4. Balancing Reactions

1. Parts of a chemical equation

2. Balancing tricks

-fractions

- H + O last

 $-H_2O = H(OH)$ 

-polyatomics as one thing

3. Worksheet on balancing equations

1. Naming Test

2. Tricks on Balancing Equations

A) Use fractions

B) Single, H, O, solve for last

C)  $H_0 = H(0H)$ 

D) Polyatomic Ions are a single entity

3. Work on Balancing

1. Types of Reactions
- Chapter 6 in textbook

2. Identifying Patterns

3. Work on Identity Types

Date Feb 29

<b>].</b>	Check	Types	of	reactions	worksheet
		/			

- 2. Predicting products
  - · Syn → Ionic
  - · Decomp -> Elements
  - · Single > Metal replaces metal
  - · D

## 1. Textbook Homework corrections

2. Real Reactions -> Balanced equations

lead nitrate + potassium iodide

barium chloride + sodium carbonate

copper + silver nitrate

Magnesium + HCl

chalk + HCI

1. Types of Reactions Worksheet
- predicting products
- check answers

2. Chapter 5: Acids + Bases

Self Note: Define

Properties

Properties

How could you identify an Acid/Base? Examples of acids + bases in body

1. Neutraliza	tion Reaction	کا		
2. Enuno o	hem!			
			-	
3. Acid and	bases ques	stion sheet		
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## Review Chemistry!

- 1. Big quiz / worksheet solutions online
- 2. Unit review back of the unit, solutions online

Chemistry Unit Test
Need periodic tables and polyatomic ions

## 1. Begin next unit

Optics and light

What is light? Why is a wave a good model for light? What are the properties of light? Label a wave diagram. What is the relationship between frequency and wavelength and energy?

Video: invisible world - beyond sight