Chemistry Learning Goals

	Lab safety→ know the safety rules of our science classroom	Chemistry Unit Test	
	WHMIS→ be familiar with the main components of WHMIS	'	
	HHPS→ recognize the 4 household hazardous product	Wednesday Oct. 18 th , 2017	
	symbols and the 3 shapes that can surround them	·	
	Classifying Matter→ define matter and be able to classify	Part A - Multiple Choice (50)	
	various substances into the two main categories and 4 sub-		
	categories of matter	Part B - Short Answer (50)	
	Periodic Table→be familiar with how the periodic table is		
	organized (i.e. atomic #'s, periods, groups) and locate	> Drawing Atoms	
	various groups (i.e. metals, non-metals, metalloids; main	> Drawing Ionic and	
	group elements, transitional and inner transitional metals; &	Covalent Compounds	
	the 4 families with names: Alkali & Alkaline Earth Metals,	Nomenclature	
_	Halogens and Noble gases)	Balancing	
	Atoms over the years \rightarrow explain the changing model of the	Types of Reactions	
	atom and people involved in each from the billiard ball to	Acids and Bases	
\Box	raisin muffin, to nuclear and finally the planetary model Atoms & their composition > understand how to determine the	number of protons alastnans and	
□ Atoms & their composition → understand how to determine the number of protons, ele neutrons in each element when neutral and when ions are formed		•	
_	for the first 20 elements; also be familiar with the E.D.D for all main group elements		
_	they bond, the ions formed and the chemical formulas of each		
	Covalent compounds → know the properties of covalent compounds		
_	structural diagrams to show how they bond and the chemical formulas of each		
	Nomenclature and Writing Chemical Formulas→ be familiar with the rules in naming and writing		
	chemical formulas for binary ionic and molecular compounds as well as those including polyatomics		
	and be able to go from one type to the other) and know the clues that indicate a chemical change		
	(as opposed to a physical change) has occurred		
	Balancing Equations -> understand why equations must be balance	-	
	Mass) and know how to balance both skeleton and word equations		
	7		
	double displacement and knowing this be able to predict the products formed, given the		
	reactants; know how to use the activity series of metals or halogens for single displacement rxns		
	Rates of Reactions \rightarrow know the 4 factors that affect the rates	•	
	it; also be able to explain how catalysts can affect the rates of	· · · · · · · · · · · · · · · · · · ·	
	Acids and Bases -> be familiar with: the properties of acids and bases; the various indicators (red		
	and blue litmus paper, pH paper, phenolphthalein, bromothymol blue and cabbage juice) we used to		
	test and the results of each in determining whether a substance is an acid or base; the		
	difference between concentration and strength of acids and b		
	Oxides→ understand what an oxide is and how different types are used to make acids & bases		

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