Name: _____ Date: _____

BCI SCIENCE
SNC 2D

Unit Outline: Chemistry

Self-assess /4

DAY BREAKDOWN

Day	Pages	Topics	Homework/ Assignments	Learning Goal	
1	xiv-xvii	Topic: Intro • (HO) Course Outline • (HO) Student Profile Sheet • (HO) Lab Safety	1. Finish WS 2. Get Safety Sheet Signed!	I will identify and understand assessment and safety expectations for this class.	/4
2	xvii	Topic: WHMIS • (HO) WHMIS & SDS • (WS) Lab Equipment • (L) Lab Discovery Activity	1. (L) Lab Discovery Activity 2. (WS) Lab Equipment	I will know the 3 key areas of WHMIS and identify WHMIS symbols and common lab equipment.	/4
3		Topic: Grade 9 Review • (Q) Safety & Equipment Quiz • (WS) Gr. 9 Science Review	1. Gr. 9 Science Review	I will work with others to review key concepts from grade 9 chemistry.	/4
4	136-141	Topic: Classification of Matter • (t/u) Gr. 9 Review • (N) Classification of Matter • (WS) Classifying Matter	1. (WS) Classifying Matter	I will be able to classify matter based on chemical formulas and or qualitative descriptions.	/4
5	140-141	Topic: Periodic Table • (N) Intro to the Periodic Table • (HO) Atoms Over The Years • (A) Labeled Periodic Table	1. (A) Labeled Periodic Table	I will understand the main contributions of scientists to atomic theory and label key areas on the PT	/4
6		Topic: Atoms & Molecules • (N) Atoms & Their Composition • (WS) Atoms & Their Composition • (V) BN: Atoms & Molecules	1. (WS) Atoms & Their Composition	I will be able to identify elements based on their atomic mass or atomic number and calculate # of n^o, p^+, or e^-	/4
7	147-154	Topic: Representing Molecules • (N) How to Draw Atoms • (WS) B/R Diagrams & Lewis Dot	1. (WS) B/R Diagrams & Lewis Dot	Given atomic number and mass number, I will be able to draw both Bohr-Rutherford and Lewis Dot Diagrams of an element.	/4
8		Topic: Making Observations • (Q) PT, B/R, Lewis Dot • (N) Making Observations • (L) Ionic vs Covalent	1. Ionic & Covalent Bonding (WS)	Based on qualitative observations, I will be able to classify compounds as either ionic or covalent.	/4
9		Topic: Classifying Chemical Compounds • (Q) Ionic vs Covalent Lab Quiz • (HO) Classifying Chemical Compounds • (HO) Writing Formulas • (WS) Molecules or Ions	1. (WS) Molecules or Ions	Based on a chemical formula, I will be able to identify a compound as either ionic or covalent.	/4
10	140-143	Topic: Ionic Compounds • (N) Ionic Compounds • (A) Ionic Bonding Assignment	1. (A) Ionic Bonding Assignment	With use of a diagram, I will show how an ionic compound forms by gaining and losing of e^- to satisfy the octet rule.	/4
11	152-153	Topic: Covalent Compounds • (N) Covalent Compounds • (A) Covalent Bonding Assignment	1. (A) Covalent Bonding Assignment	With use of a diagram, I will show how a covalent compound forms by sharing e^- to satisfy the octet rule.	/4
12	142-145	Topic: Nomenclature • (HO) Naming # 1-7 • (WS) Naming # 1-7	1. (WS) Naming # 1-7	I will be able to name and write formulas for mono and diatomic atoms as well as binary ionic compounds.	/4
13	146-150	Topic: Nomenclature • (Q) Naming # 1-7 (HO) Naming # 8-10 • (WS) Naming # 8-10	1. (WS) Naming # 8-10	I will be able to name and write formulas for covalent compounds.	/4
14	152-157	Topic: Nomenclature • (Q) Naming # 8-10 • (N) Naming # 11-12 • (WS) Naming # 11-12	1. (WS) Naming # 11-12	I will be able to name and write formulas for poly atomic ions.	/4
15	160-162	Topic: Nomenclature Review • (Q) Naming # 11-12 • (WS) Mixed Naming • (D) Conservation of Mass • (N) Chemical Reactions	1. (WS) Mixed Naming	Given a name or a formula, I will be able to select the correct rules to produce the other (i.e. given a formula, I can write the correct name).	/4

16	163-167	Topic: Balancing • (Q) Mixed Naming Quiz • (N) Balancing • (WS) Balancing	1. (WS) Balancing	I can satisfy the law of conservation of mass by balancing reactants and products where needed to ensure the same number of elements on either side of the reaction.	/4
17		Topic: Balancing from Word Equations • (N) Balancing from Word Equations • (A) Balancing Assignment	1. (A) Balancing Assignment	Given a word equation, I can correctly write the chemical formulas and then balance the equations where necessary.	/4
18.	179-188	Topic: Types of Reactions • (N) Synthesis & Decomposition • (WS) Synthesis & Decomposition	1. (WS) Synthesis & Decomposition	I can identify a reaction as either synthesis or decomposition and predict simple reactants or products.	/4
19.	190-197	Topic: Types of Reactions • (N) Single & Double Displacement • (WS) Single & Double Displacement	1. (WS) Single & Double Displacement	I can identify a reaction as either single or double displacement and predict simple reactants or products.	/4
20.		Topic: Types of Reactions • (L) Types of Reactions Lab	1. (L) Types of Reactions Lab	Based on qualitative observations, I can classify reactions as either synthesis, decomposition, single, and double displacement.	/4
21.	219-227	Topic: Properties of Acids & Bases • (Q) Types of Reactions Lab Quiz • (N) Properties of Acids & Bases • (L) Part A + B	1. (L) Part A + B	I will be able to classify substances as either acidic or basic based on their qualitative and quantitative characteristics.	/4
22.	236-241	Topic: Neutralization • (N) Neutralization • (L) Part C	1. (L) Part C	I will recognize that an acid and a base make a salt and water and be able to write balanced chemical equations to represent this.	/4
23.		Topic: Properties of Acids & Bases • Work Period to write up lab report	1. Acids & Bases Lab Report	I will follow the How To Write A Lab Report guideline to complete a proper report.	/4
24.		Topic: Unit Review • Chemistry Practice Test • Chemistry Review Exemplar	1. Chemistry Practice Test	I will complete the practice test and identify any struggles and get extra-help where needed.	/4
25.		Topic: Unit Review Chemistry Practice Test	1. Chemistry Practice Test	I will complete the practice test and identify any struggles and get extra-help where needed.	/4
26.		• Topic: Chemistry Unit Test		Unit Test	