### Chemistry Target Log Fall 2017 Semester

Name

Semester

Period

**Directions**: Place a level of understanding, as aligned to the rubric, for each assessment that provides an opportunity to practice a given learning target.

#### Rubric

4	3	2	1
<ul> <li><i>"I should be teaching this!"</i></li> <li>I completely understand all concepts and I can fully explain them to my peers with supporting examples and with correct scientific language.</li> </ul>	<ul> <li><i>"I get it."</i></li> <li>I understand most concepts, but I need to practice more so I can explain them to others with supporting examples and with correct scientific language.</li> </ul>	<ul> <li><i>"I mostly get it, except for that thing about"</i></li> <li>I am starting to understand most of these concepts. However, I need more support from peers or the instructor.</li> </ul>	<ul> <li><i>"I don't know where to begin."</i></li> <li>I do not understand these concepts. I need more time for practice and extra support from peers or the instructor.</li> </ul>

LT #	Learning Targets	Level Start	Level After Lesson	Level After Practice 1	Level After Practice 2 (Quiz)	Review Day Level	Study Level	Post Test Error Analysis Level
1	I can evaluate and identify physical and chemical properties of materials.							
1.1	I can measure simple properties in lab.							
1.1a	I can apply all lab safety criteria in the Chemistry lab.							
1.1b	I can identify and use scientific instruments.							
1.1c	I can measure mass, volume, and temperature to the correct degree given a measurement device.							
1.1d	I can calculate density based on information or using measurements.							
1.2	I can express measurements using scientific notation and with correct							
	significant figures.							
1.2a	I can differentiate between precision and accuracy of measurements.							
1.2b	I can identify zeros that are significant.							
1.2c	I can decide when and how to round measurements.							
1.3	I can distinguish between a physical property and a chemical property.							
1.3a	I can describe a substance using physical properties.							
1.3b	I can argue why a physical property also indicates a chemical property.							
1.3c	I can compare and contrast atomic levels of solids, liquids, and gases.							
1.4	I can classify elements on the periodic table, and identify some simple							
	properties.							

1.4a	I can describe properties of metals, and identify their locations on the periodic table				
1.4b	I can describe properties of nonmetals, and identify locations on the				
	periodic table.				
1.4c	I can describe metalloids, and identify their position on the periodic table.				
2	I can account for subatomic particles in an atom.				
2.1	I can document the scientific developments that led to the modern				
	atomic structure.				
2.1a	I can connect the earliest atomic theories to Dalton's atomic theory.				
2.1b	I can trace the contributions of scientists such as Thomson and Millikan to				
	the discovery of subatomic particles.				
2.1c	I can interpret the results and conclusions of Rutherford's gold foil				
	experiment.				
2.2	I can account for subatomic particles in an atom.				
2.2a	I can identify the element based on protons.				
2.26	I can relate charge to numbers of electrons.				
2.2c	I can relate an isotopes' mass number to the number of neutrons.				
3	I can translate between chemical equations and the compounds involved in the reaction				
3 3.1	I can translate between chemical equations and the compounds involved in the reaction.				
<b>3</b> <b>3.1</b> 3.1a	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds.				
<b>3</b> <b>3.1</b> 3.1a 3.1b	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds.				
<b>3</b> <b>3.1</b> 3.1a 3.1b 3.1c	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d 3.1e	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d 3.1d 3.1e 3.1f	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name alkyl branched alkanes.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d 3.1e 3.1f <b>3.2</b>	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can write a chemical equation.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d 3.1d 3.1e 3.1f <b>3.2</b> 3.2a	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can write a chemical equation. I can use names of compounds to write a chemical equation.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d 3.1c 3.1d 3.1e 3.1f <b>3.2</b> 3.2a 3.2b	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can use names of compounds to write a chemical equation. I can balance equations.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d 3.1d 3.1e 3.1f <b>3.2</b> 3.2a 3.2b 3.2c	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can use names of compounds to write a chemical equation. I can balance equations. I can draw atomic level models to prove the law of conservation of mass.				
<b>3</b> <b>3.1</b> a <b>3.1</b> b <b>3.1</b> c <b>3.1</b> d <b>3.1</b> d <b>3.1</b> e <b>3.1</b> f <b>3.2</b> a <b>3.2</b> b <b>3.2</b> c <b>3.2</b> d	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can write a chemical equation. I can use names of compounds to write a chemical equation. I can balance equations. I can draw atomic level models to prove the law of conservation of mass. I can classify types of chemical reactions.				
<b>3</b> <b>3.1</b> a 3.1b 3.1c 3.1d 3.1c 3.1d 3.1f <b>3.2</b> 3.2a 3.2b 3.2c 3.2d 3.2d 3.2e	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can use names of compounds to write a chemical equation. I can balance equations. I can draw atomic level models to prove the law of conservation of mass. I can classify types of chemical reactions. I can predict the likely products of a chemical reaction given only reactants.				
<b>3</b> <b>3.1</b> a <b>3.1</b> b <b>3.1</b> c <b>3.1</b> d <b>3.1</b> d <b>3.1</b> d <b>3.1</b> d <b>3.1</b> d <b>3.2</b> d <b>3.2</b> b <b>3.2</b> c <b>3.2</b> d <b>3.2</b> d <b>3.2</b> c	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can write a chemical equation. I can use names of compounds to write a chemical equation. I can balance equations. I can draw atomic level models to prove the law of conservation of mass. I can classify types of chemical reactions. I can predict the likely products of a chemical reaction given only reactants.				
3 3.1a 3.1b 3.1c 3.1d 3.1c 3.1d 3.1e 3.1f 3.2a 3.2a 3.2b 3.2c 3.2d 3.2c 3.2d 3.2e 4	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can write a chemical equation. I can use names of compounds to write a chemical equation. I can balance equations. I can draw atomic level models to prove the law of conservation of mass. I can predict the likely products of a chemical reaction given only reactants.				
3 3.1a 3.1b 3.1c 3.1d 3.1d 3.1d 3.1e 3.1f 3.2a 3.2b 3.2c 3.2b 3.2c 3.2d 3.2d 3.2e 4	I can translate between chemical equations and the compounds involved in the reaction. I can name compounds. I can distinguish between ionic and molecular compounds. I can balance charges to write ionic compounds. I can identify the formula and charge of several polyatomic ions. I can use prefixes to name molecules. I can name binary acids and oxyacids. I can name binary acids and oxyacids. I can name alkyl branched alkanes. I can write a chemical equation. I can use names of compounds to write a chemical equation. I can balance equations. I can draw atomic level models to prove the law of conservation of mass. I can predict the likely products of a chemical reaction given only reactants. I can relate mass in grams to moles of reactants and products in a chemical reaction.				

4.1a	I can calculate the molar mass of a compound.			
4.1b	I can convert between mass in grams and moles of a compound.			
4.1c	I can find the percent composition of an element in a compound.			
4.1d	I can use percent composition to find the empirical and molecular formulas			
	of a compound.			
4.2	I can relate moles (or mass) of one chemical species in a reaction to the			
	moles (or mass) of another chemical species.			
4.2a	I can identify and document the limiting reactant of a reaction.			

# Action Plan

Use this page to identify problems in the target log, and document your action plan. This should be used any time the learning target level is consistently below a 2, without signs of improvement.

To successfully use this page, be realistic and specific about your plan. Avoid general statements some examples are given. Good luck!

Bad Action Plans	Good Action Plans
I will study more.	I will read the text before school, since I get here early.
I will get help afterschool.	I will meet with the teacher every Tuesday to go over problems.
I can ask my friends for help.	I will change seats in class to sit next to a classmate who understands it.
I will pay attention in class more.	I will hand my phone to the instructor at the beginning of each class.
I can watch videos online.	I will watch the Crash Course video on each topic after we learn it in class.

Learning target	My Current Goal	Action Plan	Evidence of Follow Through

### Chemistry Target Log Spring 2018 Semester

Name

Semester

Period

**Directions**: Place a level of understanding, as aligned to the rubric, for each assessment that provides an opportunity to practice a given learning target.

Rubric

	4	3		2		1
•	<i>"I should be teaching this!"</i> I completely understand all concepts and I can fully explain them to my peers with supporting examples and with correct scientific language.	<ul> <li><i>"I get it."</i></li> <li>I understand most concepts, but I need to practice more so I can explain them to others with supporting examples and with correct scientific language.</li> </ul>	•	"I mostly get it, except for that thing about" I am starting to understand most of these concepts. However, I need more support from peers or the instructor.	•	"I don't know where to begin." I do not understand these concepts. I need more time for practice and extra support from peers or the instructor.

LT #	Learning Targets	Level Start	Level After Lesson	Level After Practice 1	Level After Practice 2 (Quiz)	Review Day Level	Study Level	Post Test Error Analysis Level
1	I can diagram electrons in atoms and compounds.							
1.1	I can diagram electrons in atoms.							
1.1a	I can locate the electron orbital blocks on the periodic table.							
1.1b	I can write full electron configurations for any element on the periodic table.							
1.1c	I can write noble gas abbreviated electron configurations of elements.							
1.1d	I can represent electrons using an atomic orbital diagram.							
1.2	I can interpret electron emission spectra as energies absorbed and							
	released.							
1.2a	I can measure wavelengths, frequencies, and energies using electron							
	emission spectra.							
1.2b	I can relate multiple energy sources absorbed to photons released in lab.							
1.3	I can write Lewis structures of compounds.							
1.3a	I can differentiate between core and valence electrons.							
1.3b	I can count and represent valence electrons of elements.							
1.3c	I can represent molecules using valence electrons and single bonds.							
1.3d	I can represent molecules using valence electrons and single, double, or							
	triple bonds.							
1.3d	I can recognize when resonance structures exist in molecules.							
1.3e	I can represent valence electron transfers in ionic compounds.							

1.3f	I can explain the stability of electron deficient structures.				
1.4	I can use VSEPR to predict the molecular geometries of compounds.				
1.4a	I can differentiate between a bonding and a lone pair.				
1.4b	I can model the effects of lone pairs on central atoms to the overall				
	molecular geometry.				
1.4c	I can use a molecular model kit to prove VSEPR predictions.				
2	I can explain how temperature, pressure, and atomic level interactions				
	determine state of matter.				
2.1	I can mathematically model gases using gas laws.				
2.1a	I can identify the correct gas law to apply to a given problem.				
2.1b	I can evaluate a gas problem using P, V, T, and n.				
2.1c	I can predict the effect of changing one variable on the other variable(s).				
	Ex: If you increase temperature, what is the effect on the pressure?				
2.1d	I can apply the ideal gas law to solve for one variable.				
2.1e	I can relate gas density to molar mass at STP and other conditions.				
2.2	I can relate temperature and pressure to state of matter.				
2.2a	I can identify state of matter using a phase diagram.				
2.2b	I can describe vapor pressure and its relationship to volatility.				
2.3	I can explain water's extraordinary properties.				
2.3a	I can draw a network of hydrogen bonds between water molecules.				
2.4	I can explain why substances are soluble, insoluble, or slightly soluble.				
2.4a	I can distinguish between polar and nonpolar				
3	I can model, test, and explain chemical equilibrium.				
3.1	I can use chemical equilibrium equations to explain reversible reactions.				
3.1a	I can write an expression for equilibrium constant.				
3.1b	I can interpret the value of the equilibrium constant as favoring reactant or				
	product.				
3.2	I can predict the direction of chemical equilibrium shift using Le Chatelier's				
	principle.				
3.2a	I can predict how stresses like addition of chemical species, heat, pressure or				
	volume change affect equilibrium.				
3.3	I can describe acids and bases in terms of equilibrium.				
3.3a	I can write the equilibrium expression for autoionization of water.				
3.3b	I can interpret pH.				
4	I can model and explain chemical effects on the environment.				

4.1	I can relate atmospheric concentrations of greenhouse gases to global				
	warming.				
4.1a	I can identify human impact on the environment.				
4.1b	I can relate the effects of global climate change on human populations.				
4.2	I can track major atmospheric compounds.				
4.2a	I can account for carbon consumption and generation in the carbon cycle.				
4.2b	I can account for nitrogen consumption and generation in the carbon cycle.				
4.3	I can relate Earth's environment and atmosphere to other planets.				
5	I can explain how nuclear reactions produce energy.				
5.1	I can relate nucleus stability to proportions of neutrons to protons.				
5.2	I can define $\alpha,\beta,\gamma$ decay, and how these particles contribute to nuclear				
	reactions.				
5.2a	I can identify when a nuclear reaction involves $\alpha,\beta,\gamma$ decay or capture.				
5.3	I can document half-life of nuclear decay graphically or numerically.				
5.4	I can diagram a simple nuclear power plant, and how it produces electricity.				
5.5	I can explain the design and mechanics of an atomic bomb.				
5.5a	I can argue the ethics of nuclear arms use.				
6	I can define the major classes of organic and biomolecules.				
<b>6</b> 6.1	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes.				
<b>6</b> 6.1 6.1a	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains.				
6.1 6.1a 6.2	I can define the major classes of organic and biomolecules.I can name simple alkanes, alkenes, and alkynes.I can name branched alkane chains.I can diagram the mechanics and results of fracking.				
6 6.1 6.1a 6.2 6.3	I can define the major classes of organic and biomolecules.I can name simple alkanes, alkenes, and alkynes.I can name branched alkane chains.I can diagram the mechanics and results of fracking.I can recognize the functional groups of alcohols, carboxylic acids, ethers,				
6 6.1 6.2 6.3	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters.				
6.1 6.1a 6.2 6.3 6.4	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models.				
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6 6.1 6.2 6.3 6.4 6.5 7.1	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models. I can define and identify major biomolecules, including: sugars, lipids, fats, steroids, proteins, and nucleic acids. I can perform tasks in lab at the proficiency of a first-year college student. I can identify and describe lab safety apparatus, and when to use them.				
6 6.1 6.2 6.3 6.4 6.5 7 7.1 7.2	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models. I can define and identify major biomolecules, including: sugars, lipids, fats, steroids, proteins, and nucleic acids. I can perform tasks in lab at the proficiency of a first-year college student. I can identify and describe lab safety apparatus, and when to use them. I can decide on the best glassware to use for several lab procedures.				
6         6.1         6.2         6.3         6.4         6.5         7         7.1         7.2         7.3	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models. I can define and identify major biomolecules, including: sugars, lipids, fats, steroids, proteins, and nucleic acids. I can perform tasks in lab at the proficiency of a first-year college student. I can decide on the best glassware to use for several lab procedures. I can safely operate heating equipment like hot plates and Bunsen burners,				
6         6.1         6.2         6.3         6.4         6.5         7         7.1         7.2         7.3	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models. I can define and identify major biomolecules, including: sugars, lipids, fats, steroids, proteins, and nucleic acids. I can identify and describe lab safety apparatus, and when to use them. I can decide on the best glassware to use for several lab procedures. I can safely operate heating equipment like hot plates and Bunsen burners, along with required accessories.				
6         6.1a         6.2         6.3         6.4         6.5         7         7.1         7.2         7.3         7.4	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models. I can define and identify major biomolecules, including: sugars, lipids, fats, steroids, proteins, and nucleic acids. I can identify and describe lab safety apparatus, and when to use them. I can decide on the best glassware to use for several lab procedures. I can safely operate heating equipment like hot plates and Bunsen burners, along with required accessories. I can perform a gravimetric and a vacuum filtration using a Buchner funnel				
6         6.1         6.2         6.3         6.4         6.5         7         7.1         7.2         7.3         7.4	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models. I can define and identify major biomolecules, including: sugars, lipids, fats, steroids, proteins, and nucleic acids. I can identify and describe lab safety apparatus, and when to use them. I can decide on the best glassware to use for several lab procedures. I can safely operate heating equipment like hot plates and Bunsen burners, along with required accessories. I can perform a gravimetric and a vacuum filtration using a Buchner funnel and vacuum Erlenmeyer flask.				
6         6.1a         6.2         6.3         6.4         6.5         7         7.1         7.2         7.3         7.4	I can define the major classes of organic and biomolecules. I can name simple alkanes, alkenes, and alkynes. I can name branched alkane chains. I can diagram the mechanics and results of fracking. I can recognize the functional groups of alcohols, carboxylic acids, ethers, and esters. I can model aromatic hydrocarbons with several models. I can define and identify major biomolecules, including: sugars, lipids, fats, steroids, proteins, and nucleic acids. I can perform tasks in lab at the proficiency of a first-year college student. I can identify and describe lab safety apparatus, and when to use them. I can decide on the best glassware to use for several lab procedures. I can safely operate heating equipment like hot plates and Bunsen burners, along with required accessories. I can perform a gravimetric and a vacuum filtration using a Buchner funnel and vacuum Erlenmeyer flask. I can perform an acid or base titration using phenolphthalein as an indicator.				

# Action Plan

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Bad Action Plans	Good Action Plans
I will study more.	I will read the text before school, since I get here early.
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I will pay attention in class more.	I will hand my phone to the instructor at the beginning of each class.
I can watch videos online.	I will watch the Crash Course video on each topic after we learn it in class.

Learning target	My Current Goal	Action Plan	Evidence of Follow Through