Science 9 Unit B Matter & Chemical Change

_____ I can identify WHMIS and lab safety rules.

_____ I can identify physical and chemical properties of matter.

_____ I can classify materials based on their properties and composition (pure substances (2) and mixtures (4)).

_____ I can identify physical and chemical changes.

_____ I can identify evidence of a chemical change.

_____ I can describe three reactions involving oxygen (combustion, corrosion and photosynthesis/ cellular respiration).

_____ I can identify and explain exothermic and endothermic reactions.

_____ I can describe the four different ways of affecting reaction rates.

_____ I can apply the law of conservation of mass.

_____ I can use the periodic table to identify different families, periods, metals, nonmetals and metalloids.

_____ I can explain the different theories of the models of the atom (Dalton, Rutherford, Thompson, Bohr, Nagaoka, Chadwick and the Quantum Mechanical Model).

_____ I can identify the subatomic particles in an atom.

_____ I can identify the relationship between the structure of atoms in each group and the properties of elements in that group.

_____ I can distinguish between ionic and molecular compounds.

_____ I can name and write formulas for ionic and molecular compounds.

_____ I can identify common household chemicals.

_____ I can identify how many elements and atoms are in a molecule.

_____ I can assemble or draw simple models of molecular and ionic compounds.

_____ I can write simple word equations and chemical formulas.

_____ I can state a prediction and a hypothesis based on background information.

_____ I can demonstrate proper knowledge of WHMIS by using proper techniques for handling and disposing of laboratory materials.

_____ I can analyze qualitative and quantitative data.