Outcome-Based Student Self Assessment

Course: ***Science 10F*** **Unit:** ***Chemistry*** **Student Name:_____**

Outcomes & Examples	**Green/Red/ Yellow?**	**Student's Action Plan** What will you do to achieve the outcome? (check all that apply)	**Follow Up** -What have you done? - Is the outcome achieved?
Outcome: List the Greek philosophers and their contribution to Chemistry. Include Democritus, Empedocles, Aristotle.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
List contributions here:			
Outcome: List the three main goals of the Alchemists and give three reasons why they are important.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
List contributions and goals here:			
Outcome: List the contributions of Antone Lavoisier and Joseph Priestly		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
List contributions and goals here:			
Outcome: John Dalton's atomic theory and atomic model		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Give the main points of the atomic theory, and describe and draw his model of the atom.			

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up - What have you done? - Is the outcome achieved?
Outcome: Thompson's model of the atom		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Describe and draw Tompson's model of the atom.			
Outcome: Rutherford's Model of the atom.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Describe and draw Rutherford's model of the atom.			
Outcome: Bohr's model of the atom.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Describe and draw Bohr's model of the atom.			
Outcome: Count the number of protons electrons and neutrons in an atom.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Choose 2 elements and count the number of protons electrons and neutrons.			

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up - What have you done? - Is the outcome achieved?
Outcome: Draw Bohr diagrams for the first 18 elements.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Choose 2 elements from the first 18 and draw a Bohr diagram for each.			
Outcome: Describe the development of the periodic table. Include: Mendeleev, Moseley		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
How did Mendeleev organize the periodic table? **How did Moseley organize the periodic table?** **How is the periodic table organized today?**			
Outcome: Trends in the periodic table. (Rows & Columns)		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
What are the columns of the periodic table called, and what does the column number represent? **What are the rows of the periodic table called, and what does the row number represent?**			
Outcome: Families of the periodic table.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
List the 6 families of the periodic table. State their column number.			

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up - What have you done? - Is the outcome achieved?
Outcome: Valence electrons.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Describe what a valence electron is, and how you can find how many valence electrons an atom has.			
Outcome: Physical & Chemical Properties.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
What are physical properties? Give 5 examples of a physical property. **What are chemical properties? Give 2 examples of a chemical property.**			
Outcome: Properties and location of Metals, Non-Metals, and Metalloids on the periodic table.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Compare metals, non-metals and metalloids in terms of the physical properties used in the previous outcome. State where each is found on the periodic table.			
Outcome: Reactivity of the families on the periodic table to their atomic structure (valence electrons)		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
List the 6 families of the periodic table, state their reactivity and how many valence electrons they have			

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up - What have you done? - Is the outcome achieved?
Outcome: Compare atoms, elements, compounds, and molecules.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Define atoms, elements, compounds, and molecules. Give 2 examples of each.			
Outcome: Count the number of atoms in a molecule.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Find the chemical formula for 2 different compounds and count the number of atoms of each element in each.			
Outcome: Differences between physical and chemical changes. Include signs that a chemical change has taken place.		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Compare & contrast physical changes to chemical changes give 2 examples of each. **List 6 signs that tell you a chemical change has taken place.**			
Outcome: Everyday chemical changes. (ex. Corrosion, photosynthesis, combustion, etc.)		☐ Read your notes ☐ Seek extra help ☐ Ask a friend ☐ Check your text/internet ☐ Sign up for a Peer tutor ☐ Make study notes	
Choose 1 everyday chemical change and give; **a) the reaction:** **b) where the change occurs:** **c) positive/negative effects of the chemical change:**			