Edmore Public School
706 Main St, Edmore, ND 58330

Chemistry Lesson Plans for
October 31 to November 4, 2022
3rd Hour, 8:40 – 9:32 AM

	Monday (Oct 31)	**Tuesday (Nov 1)**	**Wednesday (Nov 2)**	**Thursday (Nov 3)**	**Friday (Nov 4)**
Performance Standards	**HS-PS1-7** Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.	**HS-PS1-7** Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.	**HS-PS1-7** Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.	**HS-PS1-7** Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.	**HS-PS1-7** Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.
Topic	Periodic Trends	Origin of the Elements	Bonding Inquiry Activity	Introduction to ionic Bonding	Ionic Bonding With Lewis Dot Diagram
Objectives	• describe the different periodic trends in the periodic table	• obtain, evaluate and communicate information about the origin of elements found on the periodic table	• differentiate between metals and nonmetals with regard to number of valence electrons, electron behavior and ability to become an anion or cation.	• predict whether a bond will be ionic or covalent based on differences in electronegativity between the bonded atoms	• predict whether a bond will be ionic or covalent based on differences in electronegativity between the bonded atoms
Bellringer	(3 min) chemical bonding	(3 min) ionic bonding	(3 min) covalent bonding	(3 min) metallic bonding	(3 min) Vocab quiz
Procedure/ Instructional Delivery	○ Direct instruction: periodic trends ○ worksheet	○ Engage: review periodic table coloring with the following concepts: 1. Metals and nonmetals have certain properties, 2. whether an element is metal or nonmetal will determine whether its atoms gain or lose electrons to form ions, and 3. families (columns or groups) of elements have	○ Engage (7 min): watch "How atoms bond?" by ted ed then answer the questions in Think section ○ Explore: Perform simulation lab using Build a Molecule by phet Colorado ○ Evaluate: Pop quiz	○ Engage (5 min): review previous day's lab ○ Explore: Play ionic bonding in collision chemistry. ○ Evaluate (5 min): Answer 5 assessment questions	○ Engage (5 min): Watch video about ionic compound ○ Explain: Discuss the main concept of ionic bonding. Illustrate ionic bonding using Lewis dot structure ○ Elaborate: Students will do guided practice in doing Lewis dot structure for ionic bonds ○ Evaluate: assignment

		common properties based on number of valence electrons. o Explore: Read article "Where do elements come from?" and answer guide questions. o Explanation: The teacher explain the main concept of the lesson. o Evaluate: write The Big Ideas for the lesson			
Assessment	worksheet	Evaluation	worksheet	questions	assignment
Remarks			Early Out		

Prepared by:

Angelito M. Rivera
Science Teacher