Edmore Public School
706 Main St, Edmore, ND 58330

Chemistry Lesson Plans for
September 19-23, 2022
1st Hour, 8:40 – 9:32 AM

	Monday (Sept 19)	**Tuesday (Sept 20)**	**Wednesday (Sept 21)**	**Thursday (Sept 22)**	**Friday (Sept 23)**
Performance Standards	HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.	HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.	HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.	HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.	HS-PS3-3 Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.
Topic	Matter: Unit introduction	Matter – Day 1	Matter – Day 2	Types of Matter	Atom Simulation Lab
Objectives	• compare and contrasts the contributions of scientists towards the development of the quantum mechanical model of atom	• Students will be able to identify the four major states of matter, classify matter, and compare chemical versus physical changes as evidenced by taking notes, making a foldable, filling in a concept map, and watching a demo.	• Students will be able to identify the four major states of matter, classify matter, and compare chemical versus physical changes as evidenced by taking notes, making a foldable, filling in a concept map, and watching a demo.	• Students will be able to differentiate between homogeneous and heterogeneous mixtures, elements, and compounds.	• Describe the structure of atoms, including the masses, electrical charges, and locations of protons, neutrons, and electrons. • Identify that proton determine an element's identity.
Bellringer	(3 min) matter	(3 min) solid, liquid	(3 min) plasma, compressibility	(3 min) mixture, compounds	(3 min) vocab quiz
Procedure/ Instructional Delivery	○ Unit walkthrough ○ Matter webquest	○ Engage: (5 min) Review of introduction paper (matter) ○ Explain: (40 min) Record information in three ways. 1. Record information on a notes outline paper	○ Explore (30): complete the states of matter worksheet using simulation in this link https://phet.colorado.edu/sims/html/states-of-matter/latest/states-of-matter_en.html	○ Do now/Activator (10 min) - Students read an article about how substances are classified then attempt to complete the Types of Matter Table ○ Explore (15 min): thinking about the differences between	○ Prelab: objectives, introduction ○ Lab proper: student will work independently ○ Post lab: complete the questions for analysis part

		2. Fill in a matter foldable 3. Organize matter using a concept-map ○ Go over PowerPoint presentation. Start on the notes (slides 2 and 3), then do the foldable (slides 4-8), then go back to the notes (slides 9-12), and finish with the concept map (slides 13-16).	○ Elaborate (5 min): Watch video from Siberia where this person takes boiling water and throws it outside in very cold temperature where it freezes. Complete portion of the worksheet about Siberia video. Relate it to the simulation in this link https://interactives.ck12.org/simulations/chemistry/states-of-matter/app/index.html?screen=sandbox ○ Evaluate (10 min): take the online quiz	the mixtures, compounds, and elements. (http://micro.magnet.fsu.edu/primer/java/scienceopticsu/powersof10/) ○ Guided Practice (5 min): Students do the first two examples, and then as a whole class we discuss student answers using the type of matter dichotomous key ○ Application (10 min): complete application worksheet ○ Close (5 min): students share their answers to the class	
Assessment	Webquest paper	Exit slip, lab worksheet	Worksheet, quiz	Closing activity	Simulation Paper
Remarks					

Prepared by:

Angelito M. Rivera
Science Teacher