

Teacher Name	Mr. Jie	Unit Name	Atomic Chemistry
Course	Prep Chemistry	Dates	Sept19 – Sept 23

Monday	 Daily Objective: IWBAT explain that one unified atomic mass unit (amu), or 1 u, is exactly 1/12 the mass of a carbon-12 atom. IWBAT explain that isotopes are atoms of the same element that have different masses. IWBAT explain that average atomic mass is the weighted average of the atomic masses of the naturally occurring isotopes of an element. Agenda with Approximate Time Limits: Do Now [5min] Direct Instruction [20 min] Guided Practice [15 min] Exit Ticket [5min]
	Formative Assessment: Exit ticket Intervention: Tutorials and student personal accommodations Follow-Up/Homework: Finish classwork
Tuesday	• Daily Objective: IWBAT explain that the mass number is the total number of protons and neutrons that make up the nucleus of an isotope. IWBAT determine its number of protons, neutrons, and electrons, given the identity of a nuclide.
	Agenda with Approximate Time Limits:
	Do Now [5min]
	Ions Direct Instruction [20 min]
	Guided Practice [15 min]
	• Exit Ticket [5min]
	Formative Assessment:
	Cold call, Group work; Exit ticket
	Intervention:
	Tutorials and student personal accommodations
	Follow-Up/Homework:
	Finish classwork



 Daily Objective: IWBAT identify and calculate the number of protons, neutrons, electrons in an atom, ion, or isotope given sufficient information. IWBAT calculate average atomic masses of isotopes using percentage abundances. Agenda with Approximate Time Limits: Do Now. [10 minutes] Independent Practice [70 minutes] Exit Ticket [10 minutes] 	
Formative Assessment:	
Intervention: Available tutorials, group work, and Special Ed and 504 accommodations.	
Extension:	
Gizmo_Average Atomic Mass	
Follow-Up/Homework:	
Gizmo_Average Atomic Mass	
Daily Objective: IWBAT identify and calculate the number of protons, neutrons, electrons in an atom, ion, or isotope given sufficient information. IWBAT calculate average atomic masses of isotopes using percentage abundances.	
Agenda with Approximate Time Limits: Review [15 minutes] Practice [30 minutes]	
Formative Assessment: classwork Intervention: available tutorials, Special Ed and 504 accommodations.	
Extension:	



Teacher Name	Mr. Jie	Unit Name	Periodic Table
Course	Prep Chemistry	Dates	Sept 26 – Sept 30

Monday	 Daily Objective: Students will show the ability to identify and calculate the number of protons, neutrons, electrons in an atom, ion, or isotope given sufficient information. Students will show the ability to calculate average atomic masses of isotopes using percentage abundances. Agenda with Approximate Time Limits: Unit test: Atomic Chemistry Formative assessment: N/A
	Intervention: Test Correction, Retakes are available Follow-Up/Homework: N/A
Tuesday	 Daily Objective: IWBAT explain that chemical properties of the elements are used to organize elements in the Periodic Table. IWBAT explain that atomic numbers are used to organize elements in the Periodic Table.
	 Agenda with Approximate Time Limits: Do Now [5 minutes] The invention of periodic table and Mendeleev's dream. [35 minutes] Exit Ticket [5 minutes]
	Formative Assessment: Cold Call Exit ticket Intervention: Tutorials and student personal accommodations.
	Extension: N/A Follow-Up/Homework: N/A



Wednesday/Thursday	Daily Objective: I CAN identify and explain properties of chemical families.	
	I CAN identify and explain alkali metals, alkaline earth metals, halogens, noble gases and transition metals.	
	IWBAT explain that metals are located on the left side of the periodic table and are ductile, malleable and good conductors. They include:	
	Alkali metals (group 1), Alkaline metals (group 2) and Transition Metals.	
	IWBAT explain that nonmetals are found on the right side of the periodic table and are brittle, dull and poor conductors. They include Halogens (group 17) and chalcogen (group 16).	
	Agenda with Approximate Time Limits: • Do Now [5 min]	
	• Video or lab [40 min]	
	 Direct instruction and Guided Practice [40 min] 	
	• Exit Ticket [5 min]	
	Formative Assessment:	
	Proving questioning.	
	Exit ticket	
	Intervention:	
	Tutorials and student personal accommodations.	
	Extension	
	Vocabulary Practice	
	Follow-Up/Homework:	
	Finish Classwork	
Friday	Daily Objective:	
Thườy	I CAN express the arrangement of electrons in atoms.	
	I CAN express the arrangement of electrons using electron configurations.	
	IWBAT explain that Aufbau principle states that in the ground state of an	
	atom or ion, electrons fill atomic orbitals of the lowest available energy	
	levels before occupying higher levels.	
	IWBAT explain that it is impossible for two electrons of a poly-electron atom	
	to have the same values of the four quantum numbers: n, the principal	
	quantum number, ${\mathfrak e}$, the azimuthal quantum number, m ${\mathfrak e}$, the magnetic	
	guantum number and me the chin guantum number. This called Dauli	
	quantum number, and ms, the spin quantum number. This called Pauli Exclusion principle.	
	Exclusion principle.	



Ager	Agenda with Approximate Time Limits:	
•	Do Now [5 min]	
•	Direct Instruction [20 min]	
•	• Guided Practice [15 min]	
•	Exit Ticket [5 min]	
Forn	native Assessment:	
Cold	Cold call, observation	
Inter	Intervention:	
Tuto	Tutorials and student personal accommodations.	
Exte	Extension:	
Matt	Matter unit Oline Game	
Follo	Follow-Up/Homework:	
Finis	sh classwork	