Distance Learning Module 4: Week of: April 20 - April 24

Electron Configuration

Science Honors Chemistry - Modified from <u>Unit #6 - Atomic Structure</u>, <u>Electron Configuration & Periodic Relationships</u>

Targeted Goals from Stage 1:

Content Knowledge: Electrons are arranged in energy levels, sublevels, and orbitals. The arrangement of the outermost electrons determines the properties and chemical behaviors of the element. Electron configurations describe how electrons space themselves apart from one another and from the nucleus of an atom. Electron configurations explain the properties of elements.

Vocabulary: wave, wavelength, frequency, photon, quantum, atomic emission spectrum, electron configuration, principal energy level, sublevel, orbital, periods, groups, valence electrons, ionization energy, atomic radius, and electronegativity

Skills:

• Identify electron configuration of a given element, from its position on the periodic table.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or upload snapshots from a cell phone)
Monday:	DL Objectives_Unit 6 Objectives_Electron	
Students can set their own pacing, but make sure to meet the weekly expectations shown below: • Watch Edpuzzle Video on Quantum Mechanical Model & take notes • Watch Edpuzzle Video on Quantum Numbers & take notes • Watch Edpuzzle Video on Part 1 Quantum Numbers	Configurations (Sections 7.5-7.9) Edpuzzle - Mod3_Video1_Quantum Mechanical Model Edpuzzle - Mod3_Video2_Quantum Mechanical Model	answer embedded multiple choice while watching edpuzzle videos - grade will automatically transfer to Classroom gradebook from Edpuzzle when video is watched all the way to the end & show results button is checked
Complete Summarizing Notes to organize new Information	Edpuzzle - Mod4A_Video1_Part 1_Quantum Numbers	picture of or electronically submitted completed Summarizing Notes (you

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or upload snapshots from a cell phone)
 Save notes to submit when you have completed the module 	Summarizing Notes_Quantum Numbers_Electron Configuration	may need to watch Tuesday's videos to complete)
Tuesday: Watch Edpuzzle Video on Part 2_Quantum Numbers & take notes Watch Edpuzzle Video on Writing Electron Configurations & take notes Save notes to submit when you have completed the module	Edpuzzle - Mod3_Video4_Part 2_Atomic Orbitals and Electron Configuratio Edpuzzle - Mod3_Video5_Writing Electron Configurations WKT 7-3 QUANTUM_NUMBERS_WORKSHEET Key_WKT 7-3 Quantum Numbers Worksheet	 □ view & answer embedded multiple choice while watching edpuzzle videos - grade will automatically transfer to Classroom gradebook from Edpuzzle when video is watched all the way to the end & show results button is checked □ picture of or electronically submitted completed practice Wkst 7-3 Quantum Numbers Practice
Wednesday:		`
 Watch Edpuzzle Extension Video Electron Configurations (Bozeman Science) & take notes Complete Electron Configuration POGIL 	Edpuzzle - Mod3_Extension Video_Electron Configuration 13 Electron Configuration POGIL.pdf Key_13 Electron Configuration POGIL	view & answer embedded multiple choice while watching edpuzzle videos - grade will automatically transfer to Classroom gradebook from Edpuzzle when video is watched all the way to the end & show results
Save notes to submit when you have completed the module		button is checked picture of completed Electron Configuration POGIL
Thursday: • Review Edpuzzle videos for the week	WKST 7-2 Electron Configuration Problems	 picture of or electronically submitted completed practice Wkst 7-2 Electron
 Complete Worksheet 7-2 Electron Configuration Problems 	Key_Wkst 7-2 Electron Configuration Problems	Configuration Practice

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or upload snapshots from a cell phone)
Friday:		
 Complete Google Form Weekly 	Google Form Quantum Number /	completed Distance Learning Google
Content Check for Quantum Number	Introductory Electron Configuration Content	Form
/ Introductory Electron Configuration	Check	Submit notes on Edpuzzle videos
Concepts		

Week criteria for success (attach student checklists or rubrics): By the end of this week, students should have:

watched Edpuzzle videos and responded to embedded video questions where appropriate
taken notes on weekly EdPuzzle videos and submitted notes to Google classroom
completed Summarizing Notes_Quantum Numbers_Electron Configurations
completed Electron Configuration POGIL
completed practice Wkst 7-3 Quantum Numbers Practice
completed practice Wkst 7-2 Electron Configurations Problems
Google Form Quantum Number / Introductory Electron Configuration Content Check

Supportive resources and tutorials for the week (plans for re-teaching):

- online virtual Q and A help sessions (see Google Classroom for times and invite codes)
- read and re-read the textbook
- watch and rewatch Edpuzzle videos
- practice worksheets and corresponding answer keys in Google Classroom