

Grade 10/11/12

Distance Learning Module 5: Week of: April 27 - May 1

Electron Configuration

Honors Chemistry - Modified from [Unit 6 - Atomic Structure, Electron Configuration & Periodic Relationships](#)

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: <ul style="list-style-type: none">Read through Unit 6 PowerPoint Slide Show & take notesWatch Edpuzzle Videos on Exceptions to Electron Configuration Rules & take notesSave notes to submit when you have completed the modulecomplete writing Electron Configurations for Exceptions	<u>DL Unit 6 Electron Configurations (Sections 7.5-7.9)</u> Edpuzzle - Mod5_Video1_Exceptions in Electron Configurations & Abbreviated Notation Edpuzzle - Mod5_Video2_Reinforcement for Exceptional Electron Configurations	<ul style="list-style-type: none"><input type="checkbox"/> 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<input type="checkbox"/> picture of or electronically submitted completed practice Writing Electron

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or upload snapshots from a cell phone)
	Writing Electron Configurations for exceptions Key_Writing Electron Configurations for Exceptions	Configurations for Exceptions
Tuesday: <ul style="list-style-type: none"> ● Watch Edpuzzle Video on Electron Configuration of Ions & take notes ● Save notes to submit when you have completed the module ● Complete Practice: Writing Electron Configurations for Ions 	Edpuzzle - Mod5_Video3_Electron configuration of Ions Writing Electron Configurations for Ions Key Writing Electron Configurations for Ions	<input type="checkbox"/> 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 <input type="checkbox"/> picture of or electronically submitted completed practice Writing Electron Configurations for Ions
Wednesday: <ul style="list-style-type: none"> ● Watch 2 Edpuzzle Videos on Paramagnetism & Diamagnetism & take notes ● Save notes to submit when you have completed the module ● Complete Practice: Making Predictions_Paramagnetic or Diamagnetic (Wkst 7-4) 	Edpuzzle - Mod5_Video4_Paramagnetism and Diamagnetism Edpuzzle - Mod5_Video5_Diamagnetism and Paramagnetism WKST 7-4 Paramagnetic or Diamagnetic	<input type="checkbox"/> 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 <input type="checkbox"/> picture of or electronically submitted completed practice Wkst 7-4 Paramagnetic or Diamagnetic

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or upload snapshots from a cell phone)
Thursday: <ul style="list-style-type: none"> Complete pages 1-4 of Distance Learning Practice Test for Electron Configuration 	Distance Learning Practice Test_Electron Configuration.pdf Key_Distance Learning Practice Test Electron Configuration	<input type="checkbox"/> picture of completed pages 1-4 Distance Learning Practice Test
Friday: <ul style="list-style-type: none"> Review work from the week Complete Google Form Distance Learning Content Check - Electron Configuration Advanced Topics 	Google Form to be Posted Friday Morning	<input type="checkbox"/> completed Distance Learning Google Form Content Check - Electron Configuration Advanced Topics <input type="checkbox"/> Submit notes on Edpuzzle videos / Unit 6 Electron Configuration PowerpointSlide Show

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 EdPuzzle videos or Unit 6 Chapter 7_Electron Configurations PowerPoint Slide Show (Sections 7.5-7.9) and submitted notes to Google classroom
- ☐ completed Writing Electron Configurations for Exceptions
- ☐ completed Writing Electron Configurations for Ions
- ☐ completed Making Predictions Paramagnetic or Diamagnetic (Wkst 7-4)
- ☐ completed pages 1-4 of Distance Learning Practice Test for Electron Configuration
- ☐ completed Google Form Electron Configuration Advanced Topics 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