

Grade 10/11/12

Distance Learning Module 1: Week of: March 30-April 3

Modern Atomic Theory, Atomic Structure Review, Periodic Table

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

**Targeted Goals from Stage 1:**

**Content Knowledge:** Atoms are comprised of subatomic particles held together by fundamental forces and their quantity and arrangement determines the atom's properties, identity, and behavior. Each atom has a charged substructure consisting of a nucleus, which is made of protons and neutrons, surrounded by electrons. The periodic table orders elements horizontally by the number of protons in the atom's nucleus and places those with similar chemical properties in columns. The repeating patterns of this table reflect patterns of outer electron states.

**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:**

- Draw a model of a given atom.

**Expectation:**

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: <i>Students can set their own pacing, but make sure to meet the weekly expectations shown below:</i> <ul style="list-style-type: none"><li>• Watch EdPuzzle Video on History of Atomic Structure &amp; take notes.</li><li>• Read through Unit 6 PowerPoint Slide Show &amp; take notes</li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Unit 6 (2.1-2.4) PowerPoint Slide Show</a></li><li>• EdPuzzle-History of the Atom</li><li>• <a href="#">Notes Model of Atom Atomic Theory</a></li></ul>	Submit ONE or MORE of the following to Google Classroom each day: <ul style="list-style-type: none"><li>• pictures of your notes from EdPuzzle Videos or Unit 6 PowerPoint</li><li>• pictures of completed Atomic Theory handout</li></ul>
Tuesday: <ul style="list-style-type: none"><li>• Watch Edpuzzle Video on Dalton's Atomic Theory &amp; answer embedded multiple choice.</li><li>• Watch Edpuzzle Video on JJ Thomson &amp; answer embedded multiple choice.</li><li>• Watch Edpuzzle Video</li></ul>	<ul style="list-style-type: none"><li>• EdPuzzle- Daltons Atomic Theory</li><li>• EdPuzzle- JJ Thomson Cathode Ray Experiment, and the Plum Pudding Model</li><li>• EdPuzzle - Rutherford, The</li></ul>	Submit ONE or MORE of the following to Google Classroom: <ul style="list-style-type: none"><li>• pictures of your notes from Edpuzzle Videos or Unit 6 Powerpoint</li><li>• answer embedded multiple choice while watching edpuzzle videos</li></ul>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>on Rutherford &amp; the Gold Foil Experiment &amp; answer embedded multiple choice.</p> <ul style="list-style-type: none"> <li>• Read through Unit 6 PowerPoint Slide Show &amp; take notes</li> </ul>	<p>Gold Foil Experiment, and The Nuclear Atom</p>	
<p>Wednesday:</p> <ul style="list-style-type: none"> <li>• Watch Edpuzzle Video on Structure of the Atom &amp; answer embedded multiple choice.</li> <li>• Watch Edpuzzle Video on Nuclide Symbols</li> <li>• Read through Unit 6 PowerPoint Slide Show &amp; take notes</li> </ul>	<ul style="list-style-type: none"> <li>• EdPuzzle – Structure of the Atom</li> <li>• EdPuzzle - Nuclide Symbols: Atomic Number, Mass Number, Ions, and Isotopes</li> <li>• A6_Atomic Structure</li> <li>• Key_A6_Atomic Structure_Isotopes_Atomic Mass.pdf</li> </ul>	<p>Submit ONE or MORE of the following to Google Classroom:</p> <ul style="list-style-type: none"> <li>• pictures of your notes from EdPuzzle Videos or Unit 6 PowerPoint</li> <li>• answer embedded multiple choice while watching EdPuzzle videos</li> <li>• practice worksheet on Atomic Structure</li> </ul>
<p>Thursday:</p> <ul style="list-style-type: none"> <li>• Watch Edpuzzle Video on A tour of the Periodic Table</li> <li>• Read through Unit 6 PowerPoint Slide Show &amp; take notes</li> </ul>	<ul style="list-style-type: none"> <li>• EdPuzzle – Tour of the Periodic Table</li> </ul>	<p>Submit ONE or MORE of the following to Google Classroom:</p> <ul style="list-style-type: none"> <li>• pictures of your notes from Edpuzzle Video or Unit 6 Powerpoint</li> </ul>
<p>Friday:</p> <ul style="list-style-type: none"> <li>• Complete Distance Learning Practice Test</li> </ul>	<ul style="list-style-type: none"> <li>• Distance Learning_Practice Test_Atomic Structure</li> </ul>	<p>Submit ONE or MORE of the following to Google Classroom:</p> <ul style="list-style-type: none"> <li>• Completed Distance Learning Practice Test</li> </ul>

**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 2 PowerPoint Slide Show (Atomic Structure)
- completed practice worksheet on Atomic Structure
- completed Distance Learning Practice Test

**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
- practice worksheets and corresponding answer keys in Google Classroom