**JMS Lesson Plan**

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| **Teacher:** | Shelly Vincent | | **Subject:** | | Science | |
| **Date:** | **Beginning:** 10/16/2017**Ending:**  10/20/2017 | | **Grades:** | | 8th | |
| **Learning**  **Targets:** | I can describe atomic structure and how the structure determines an element’s identity.  I can recognize where atoms of some common elements are found and how they are named.  I can classify elements as metals, nonmetals, and metalloids.  I can identify groups of elements. | | **Connects with:** | | **Math – graphing calculators (accelerated content)** | |
| **Standard(s):** | S8P1 – f. Recognize that there are more than 100 elements and some have similar properties as shown on the Periodic Table of Elements.  S8P1 - g. Identify and demonstrate the Law of Conservation of Matter. | | | | | |
| **DOK Level** | **Activities / Assignments / Questions** | | | **Assessment** | | |
| **­­**  **Remediation** | The word ***element*** is related to elementary which means “basic.” | | | Formative | | Selected Response -  Constructed Response -  Verbal  Rubric  Other – Entrance ticket  Other – Lab |
| **Acceleration** | Radioactivity – model how quickly atoms of radioactive elements can change (pg. 159) | | | Formative | |  |
| **2** | Project- Model of the Atom on chart paper  What happens when an atom forms an ion?  How can an element change into an atom of a different element?  Study Guide (chapter 5)  ISN foldable – Periodic Table notes | | | Formative  Summative | | Selected Response -  Constructed Response –  Verbal  Rubric  Other – lab  Other – project model |
| **3** | Activity – Button activity (sort, classify and form a table to show how they are arranged)  Project – Element Tile complete using rubric  Study Guide (chapter 5) inference questions | | | Formative  Summative | | Selected Response  Constructed Response –  Verbal  Rubric  Other – Project |
| **4** | |  | | Formative  Summative | | Selected Response  Constructed Response -  Verbal  Rubric  Other –  Other – |
| **Resources:** | Classzone.com – size of an atom slide show  Textbook – Physical Science (McDougal Littell)  <https://www.youtube.com/watch?v=EMDrb2LqL7E> (Video -Introduction to atomic structure)  <https://www.youtube.com/watch?v=Kked2f-wuKQ> (video – how the periodic table is arranged)  <https://www.youtube.com/watch?v=VgVQKCcfwnU> (periodic table song) | | | | | |

**Monday-** Introduction: How the periodic table is arranged

Elements make up the periodic table (Button Activity – Explore similarities and differences of objects)

ISN foldable

Videos – How the periodic table is arranged

**Tuesday-** Project: Model of the atom on chart paper (small differentiated groups)

Video- introduction to atomic structure

**Wednesday** – Project: Element Tile

Began research via chrome books

Video- Periodic Table song

**Thursday** – Complete Projects: Element Tiles and Models of the atom

**Friday** – Complete Projects: Element Tiles and Models of the Atom

Anchor Activities – Study Guide Chapter 5

Anchor Videos via Google Classroom

**NOTES:**

<https://www.youtube.com/watch?v=EMDrb2LqL7E> (Video -Introduction to atomic structure)

<https://www.youtube.com/watch?v=Kked2f-wuKQ> (video – how the periodic table is arranged)

<https://www.youtube.com/watch?v=VgVQKCcfwnU> (periodic table song)

**ANCHOR ACTIVITIES:**

Videos for Google classroom:

<https://www.youtube.com/watch?v=kBgIMRV895w> (How protons, neutrons, and electrons were discovered)

<https://www.youtube.com/watch?v=F2d4Hq1CBdg> (Can you touch an atom?)

<https://www.youtube.com/watch?v=3-IreD_G944> (Seeing is believing, the Atomic Knife)

<https://www.youtube.com/watch?v=0RRVV4Diomg> (Who arranged our modern periodic table)

<https://www.youtube.com/watch?v=rcKilE9CdaA> (The Electron configuration)

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