**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.” | [x]  Formative | [ ] Selected Response - [ ] Constructed Response - [ ] Verbal[ ] Rubric[x] Other – Entrance ticket[ ] Other – Lab |
| **Acceleration** | Radioactivity – model how quickly atoms of radioactive elements can change (pg. 159) | [x]  Formative |  |
| **2** | Project- Model of the Atom on chart paperWhat 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 | [x]  Formative[ ]  Summative | [x] Selected Response - [ ] Constructed Response – [ ] Verbal[ ] Rubric[ ] Other – lab [x] Other – project model |
| **3** | Activity – Button activity (sort, classify and form a table to show how they are arranged)Project – Element Tile complete using rubricStudy Guide (chapter 5) inference questions | [x]  Formative[x]  Summative | [ ] Selected Response[x] Constructed Response –[ ] Verbal[x] Rubric[x] Other – Project |
| **4** |  | [x]  Formative[ ]  Summative | [ ] Selected Response[x] Constructed Response -[ ] Verbal[ ] Rubric[ ] Other – [ ] Other – |
| **Resources:** | Classzone.com – size of an atom slide showTextbook – 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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