**JMS Lesson Plan**

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| **Teacher:** | Shelly Vincent | | **Subject:** | | Science | |
| **Date:** | **Beginning:** 8/14/2017**Ending:**  8/18/2017 | | **Grades:** | | 8th | |
| **Learning**  **Targets:** | I can explain what matter is.  I can identify the smallest particles of matter.  I can describe how atoms combine into molecules.  I can describe how atoms and molecules move.  I can describe how pure and mixed matter are different and how they are related.  I can describe how atoms form compounds.  I can describe the different states of matter and how they behave. | | **Connects with:** | | **Math – Interpreting graphs** | |
| **Standard(s):** | S8P1a- Develop and use a model to compare and contrast pure substances (elements and compounds) and mixtures  S8P1b-Develop and use models to describe the movement of particles in solids, liquids, gases, and plasma states when thermal energy is added or removed. | | | | | |
| **DOK Level** | **Activities / Assignments / Questions** | | | **Assessment** | | |
| **­­**  **Remediation** | States of matter | | | Formative | | Selected Response -  Constructed Response -  Verbal  Rubric  Other –  Other – |
| **2** | Frayer models – matter, mass, weight, atom, molecule, element, compound, mixture  A Matter of Matter – Identify and describe each model, principal and law  States of Matter – Check Out Station  Quiz – Volume by water displacement  Quiz – Introduction to Matter  Anchor Activities – USA Test Prep Matter | | | Formative  Summative | | Selected Response -  Constructed Response –  Verbal  Rubric  Other –  Other – |
| **3** | Molecules on the Move – explain how energy moves throughout each example  Anchor Activities – USA Test Prep Matter | | | Formative  Summative | | Selected Response  Constructed Response -  Verbal  Rubric  Other –  Other – |
| **4** | | Performance Task – Measuring Rocks on Mars vs. Earth | | Formative  Summative | | Selected Response  Constructed Response -  Verbal  Rubric  Other –  Other – |
| **Resources:** | <https://www.youtube.com/watch?v=wyRy8kowyM8> Matter overview | | | | | |

**Monday** – Matter is made of Atoms (molecules are always in motion, informational articles, and textbook study pg. 21-25)

Matter video and questions

Questions pg. 13 (1-6) Key Concepts, Critical Thinking and Inference

**Tuesday** – Matter can be pure or mixed

Investigation pg. 24 (How well do water and oil mix?)

Questions pg.. 25 (1-6) Key Concepts, Critical Thinking and Application

ISN notes homogeneous/heterogeneous

Worksheet – types of mixture

Video - <https://www.youtube.com/watch?v=K2qkBHI-Wy4> milk homogenization

Food lab – butter

**Wednesday** **–** States of Matter

ISN foldable of the 4 states of matter

Worksheets – A Matter of Matter and Molecules on the Move

Questions pg. 33 (1-6) Key Concepts, Critical Thinking and Synthesis

**Thursday** – Vocab and key concept review pg. 35-36 (1-22)

Critical Thinking questions pg. 36 (23-33)

Interpreting Graphs pg. 37 (1-5)

Performance Task pg. 37 (accelerated classes)

**Friday** – Introduction to Matter Quiz

Volume by displacement Quiz

Check out Station (States of Matter)

Anchor Activity – USA Test Prep Matter

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| "No amount of experimentation can ever prove me right; a single experiment can prove me wrong."  Albert Einstein |  |