**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 mixturesS8P1b-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 | [x]  Formative | [ ] Selected Response - [ ] Constructed Response - [ ] Verbal[ ] Rubric[ ] Other – [ ] Other –  |
| **2** | Frayer models – matter, mass, weight, atom, molecule, element, compound, mixtureA Matter of Matter – Identify and describe each model, principal and lawStates of Matter – Check Out StationQuiz – Volume by water displacementQuiz – Introduction to MatterAnchor Activities – USA Test Prep Matter | [x]  Formative[x]  Summative | [ ] Selected Response - [ ] Constructed Response – [ ] Verbal[ ] Rubric[ ] Other – [ ] Other –  |
| **3** | Molecules on the Move – explain how energy moves throughout each exampleAnchor Activities – USA Test Prep Matter | [x]  Formative[ ]  Summative | [x] Selected Response[ ] Constructed Response -[ ] Verbal[ ] Rubric[ ] Other – [ ] Other –  |
| **4** | Performance Task – Measuring Rocks on Mars vs. Earth | [x]  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 |  |