**JMS Lesson Plan**

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| **Teacher:** | Shelly Vincent | **Subject:** | Science |
| **Date:** | **Beginning:** 10/2/2017**Ending:**  10/6/2017 | **Grades:** | 8th |
| **Learning****Targets:** | I can explain how energy is transferred through heat.I can describe how materials are used to control the transfer of energy through heat. | **Connects with:** | **Earth Science – (convection cycles) lava/magma, weather patterns, sea breeze** |
| **Standard(s):** | S8P2 – Plan and carry out investigations on the effects of heat transfer on molecular motion as it relates to the collision of atoms (conduction), through space (radiation), or in currents in a liquid or a gas (convection). |
| **DOK Level** | **Activities / Assignments / Questions** | **Assessment** |
| **­­****Remediation** | Review States of Matter | [x]  Formative | [ ] Selected Response - [ ] Constructed Response - [x] Verbal[ ] Rubric[x] Other – diagram/model[ ] Other –  |
| **2** | ISN notesWorksheet – conduction, convection and radiationKinetic Theory of Matter – worksheet modelsSolar Oven – research and design | [x]  Formative[ ]  Summative | [ ] Selected Response - [ ] Constructed Response – [x] Verbal[ ] Rubric[x] Other – research[ ] Other –  |
| **3** | Worksheet – The Heat is On (synthesis and inferences)Lab – Solar Oven (guided by rubric)Teacher/Student conferences on short constructed response  | [x]  Formative[x]  Summative | [x] Selected Response[x] Constructed Response [x] Verbal[ ] Rubric[ ] Other – [ ] Other –  |
| **4** |  | [x]  Formative[ ]  Summative | [ ] Selected Response[ ] Constructed Response -[ ] Verbal[ ] Rubric[ ] Other – [ ] Other – |
| **Resources:** | Textbook – Physical Science McDougal Littell[**https://www.youtube.com/watch?v=NVXLDPHGYhg**](https://www.youtube.com/watch?v=NVXLDPHGYhg)cartoon  heat vs temperature[**https://www.youtube.com/watch?v=6sUOMds\_zmE**](https://www.youtube.com/watch?v=6sUOMds_zmE)heat transfer song |

**Monday** – **Teacher/Student conferencing** (short constructed response physical vs. chemical change) 3rd and 5th block only

 **Construction of Solar Oven** – students will use rubric as guide

 **Anchor Activity** -USA Test Prep – Complete any remaining assignments

 **Anchor Worksheets** – conduction, radiation, convection

**Tuesday** – **Complete construction of Solar Oven** – students will use rubric as guide

 **Anchor Activity** -USA Test Prep – Complete any remaining assignments

 **Anchor Worksheets** – conduction, radiation, convection

**Wednesday** **– Lab** – Solar Oven (if weather permits)

 Anchor Activity -USA Test Prep – Complete any remaining assignments

 Anchor Worksheets – conduction, radiation, convection

**Thursday** – Substitute Plans

 **Atoms are the smallest form of elements**

 Key Vocabulary and Key Concepts pgs. 137-143 (1-6)

 **Elements make up the periodic table**

Critical thinking and prediction pgs. 145-151 (1-6)

**Friday** – Substitute Plans

 **The periodic table is a map of the elements**

 Key Concepts and compare contrast pgs. 154-160

 Review Vocabulary and Key Concepts pgs. 163-164 (1-35

 **Interpreting Tables** pg. 165 (1-6)

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