**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 | | | Formative | | Selected Response -  Constructed Response -  Verbal  Rubric  Other – diagram/model  Other – |
| **2** | ISN notes  Worksheet – conduction, convection and radiation  Kinetic Theory of Matter – worksheet models  Solar Oven – research and design | | | Formative  Summative | | Selected Response -  Constructed Response –  Verbal  Rubric  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 | | | Formative  Summative | | Selected Response  Constructed Response  Verbal  Rubric  Other –  Other – |
| **4** | |  | | 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 |  |