**JMS Lesson Plan**

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| **Teacher:** | Shelly Vincent | | **Subject:** | | Science | |
| **Date:** | **Beginning:** 1/8/2018**Ending:**  1/12/2018 | | **Grades:** | | 8th | |
| **Learning**  **Targets:** | I can obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within the system. | | **Connects with:** | | **ELA – Short Constructed Response CSET** | |
| **Standard(s):** | S8P3 Obtain, evaluate, and communicate information about cause and effect relationships between force, mass, and the motion of objects.   1. Analyze and interpret data to identify patterns in the relationships between speed and distance, and velocity and acceleration. | | | | | |
| **DOK Level** | **Activities / Assignments / Questions** | | | **Assessment** | | |
| **­­**  **Key Terms** | Position, reference point, motion, speed, velocity, vector, acceleration | | | Formative | | Selected Response  Constructed Response  Verbal  Rubric  Other |
|  | Anchor Activities – USA Test Prep (review, reinforce and/or enhance) | | |  | |  |
| **2** | Bell Ringer – warm ups (GoFar)  USA Test Prep – pretest and quiz/assessment | | | Formative  Summative | | Selected Response -  Constructed Response –  Verbal  Rubric  Other |
| **3** | Inference worksheet (What is Motion?)  Speed worksheet – (literal equations and inverse operations)  Distance/Time worksheets- interpretation  Velocity/Time worksheets - interpretation | | | Formative  Summative | | Selected Response  Constructed Response –  Verbal  Rubric-  Other – literal equations  and inverse operations  Other – |
| **4** | |  | | Formative  Summative | | Selected Response  Constructed Response -  Verbal  Rubric – 2 point  Other –  Other – |
| **Resources:** | Textbook – Physical Science (McDougal Littell)  CSET  USA Test Prep  Go Far questions | | | | | |

**Monday –** An object in motion changes position (pgs. 313-318)

Google classroom – video <https://www.youtube.com/watch?v=4dCrkp8qgLU> (position, velocity and acceleration)

Power Point - Motion

Inference worksheet – What is Motion?

USA Test prep – S8P3a (pretest)

**Tuesday –** Speed measures how fast position changes (pgs. 320-327)

Video - <https://www.youtube.com/watch?v=wD7C4V9smG4> (relative motion and reference frames)

Accelerated video - Theory of relativity explained in 7 minutes (time dilation and classical relativity) <https://www.youtube.com/watch?v=ttZCKAMpcAo>

Worksheet – Speed

**Wednesday –** Acceleration measures how fast velocity changes (pgs. 329-335)

Distance/Time graph – video <https://www.youtube.com/watch?v=LJctqrA9jhU&t=423s>

Or <https://www.youtube.com/watch?v=_MLH-9W0oxQ>

Distance/Time graph - worksheets

**Thursday –** Acceleration measures how fast velocity changes (pgs. 329-335)

Velocity/Time graph – video <https://www.youtube.com/watch?v=bNyMI-859Lc>

Velocity/Time graph - worksheets

**Friday –** The motion of an object can be described and predicted

USA Test prep – S8P3a (assessment)