Assignment Sheet for 7th Grade

Week of December 7, 2015 (start date: 12/10/15)

Objective: Today I am describing the relationship between the temperature and the movement of atmospheric gases so that I understand the rise and fall of air. I am also using the Kinetic Theory of Matter to illustrate and account for physical properties and the arrangement and motion of atoms. Lastly, I am identifying the elements that exist in nature or by man that make up living and non-living things so that I understand the construction of the Periodic Table of Elements.

**Day One**

\_\_\_\_\_\_\_\_Update table of contents and place all artifacts into your notebook.

\_\_\_\_\_\_\_Record the table below in your notebook page 54. What are the signs that a physical or chemical change has occurred. Use the following websites to obtain information to complete the chart below. [http://antoine.frostburg.edu/chem/senese/101/reactions/symptoms.shtml](http://antoine.frostburg.edu/chem/senese/101/reactions/symptoms.shtml%20)

<http://www.learner.org/courses/essential/physicalsci/session4/closer1.html>

<http://www.4to40.com/science/index.asp?p=Physical_Change_Examples>

Sign of a Chemical or Physical Change

|  |  |
| --- | --- |
| Chemical change  | Physical Change  |
| Color change | Shape Changes |

\_\_\_\_\_\_\_\_\_Virtual Lab: <http://vital.cs.ohio.edu/?page_id=161> (changes in matter)

Record your data and conclusion in your notebook page 59 (use the 6-7 steps writing a conclusion)

**Day Two:**

\_\_\_\_\_\_\_\_Notes: Gas Laws (see my weebly page under 7th grade) (page 56)

\_\_\_\_\_\_\_Video: Gas Laws <http://www.bing.com/videos/search?q=video+gas+laws&view=detail&mid=D9643EB2A85098C2C476D9643EB2A85098C2C476&FORM=VIRE2>

<http://www.bing.com/videos/search?q=rap+kinetic+theory+of+matter&view=detail&&&mid=684091068363C0B7553D684091068363C0B7553D&rvsmid=684091068363C0B7553D684091068363C0B7553D#view=detail&mid=684091068363C0B7553D684091068363C0B7553D>

Write a summary on the next page.

\_\_\_\_\_\_\_\_It’s In the Cards Vocabulary: **Kinetic Theory of Matter, Expansion, Contraction, Temperature, Volume, Pressure, Boyle’s Law, and Ideal Gas Law (pg. 57)**

\_\_\_\_\_\_\_\_Interactive Lab: Gas Laws: Record data in a table and write a conclusion for this lab in your notebook on page 58. <http://www.glencoe.com/sites/common_assets/science/virtual> \_[labs/PS08/PS08.htmlhttp://jpsaos.com/canova/GasL](labs/PS08/PS08.htmlhttp%3A/jpsaos.com/canova/GasL) aws.pdf

**Day Three:**

\_\_\_\_\_\_\_CK12.com Kinetic Theory of Matter. Read and answer discussion questions. Also take the practice quiz.

\_\_\_\_\_\_\_ Notes: Kinetic Theory of Matter (page 60)

Use this organizer to collect/organize your notes.

|  |  |  |  |
| --- | --- | --- | --- |
| State of Matter  | Arrangement of Particle  | Motion of Particles  | Amount of energy  |
| Solid  |  |  |  |
| Liquid |  |  |  |
| Gas  |  |  |  |
| Plasma |  |  |  |

\_\_\_\_\_\_\_Virtual Lab: Kinetic Theory of Matter. Record data in a table and write a conclusion. (page 59)

\_\_\_\_\_\_\_Popcorn Lab (page 61) See teacher for instructions/materials

\_\_\_\_\_\_\_Concept Web (page 62) Kinetic Theory of Matter (can be done on the computer)

\_\_\_\_\_\_\_Video: Study Jam Periodic Table of Elements (Write summary below)