Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_

Assignment Sheet 8th Grade Week of February 8, 2016

Objective: Today I am identifying matter and measuring matter in terms of volume and mass. I am also classifying matter into two distinct categories, pure substance and mixture based their physical properties. Finally, I am classifying matter by its physical and chemical properties.

\_\_\_\_PowerPoint Notes Classification of Matter Its changes and I (my Weebly page)

\_\_\_\_Vocabulary: It’s in the Cards…..matter, mass, volume, solid, liquid, gas, states of matter, mixture, and pure substance, atoms, elements, and compounds

\_\_\_Measuring Mass Virtual Lab: <https://www.wisc-online.com/learn/natural-science/chemistry/gch202/reading-a-triple-beam-balance> Summarize what you learned below. (RARE response)

\_\_\_\_\_Measuring Volume using displacement video: Watch video about measuring volume and complete the virtual lab. Summarize what you learned below. <https://www.youtube.com/watch?feature=player_embedded&v=n3ia4i-uFTM>

 <https://www.wisc-online.com/learn/natural-science/chemistry/gch302/measuring-volume-using-a-graduated-cylinder>

RARE response…..

\_\_\_\_Notes: Pure Substances and Mixtures PowerPoint

\_\_\_\_Video: How blood parts are separated You Tube

\_\_\_\_Concept Web: Matter, mass, volume, mixture,

\_\_\_\_Lab: Mixture vs. Pure Substance

**Mixtures: Pure Substance vs. Mixtures**

**Is Black Marker Really Black?**

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| ***Testable Question:**** What is the difference between a mixture and a pure substance?
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***Definition:***

* Pure Substance: a substance in which there is only one type of particle; includes elements and compounds.
* Mixture: a combination of two or more substances that are not chemically combined

***Materials:***

* 400 ml plastic beaker
* Paper towel
* Water
* 6 Black Markers

***Procedure:***

1. Fill the plastic 400 ml beaker with water 1 cm high
2. With the Bic marker, write the number 1 on the left side of the paper towel. Make sure the number is 2 cm above the bottom of the paper towel
3. Repeat this for the remaining markers, Marks-A-Lot - 2, Crayola - 3, Sharpie - 4, Expo - 5, and Vis A Vis - 6.
4. Slide the paper towel into the 400 ml beaker so the bottom of the paper towel touches the water. **Make sure the water never touches the numbers!!**

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| --- | --- | --- | --- |
| Marker  | Pure substance or Mixture  | Observation that led to your decision  |  |
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\_\_\_\_\_Matter Identification Lab <http://rancho-hs.enschool.org/ourpages/auto/2013/8/16/41512093/09_27_13%20identifying%20mixtures%20and%20substances%20lab.pdf>..... See teacher for worksheet

\_\_\_\_\_Study Jam Video: Mixtures/CK12.com Mixtures and Pure substances answer discussion questions at the end of reading and complete the practice test. Summarize what you learned below using a RARE response.

\_\_\_PowerPoint Notes: Properties of Matter (Physical and Chemical) and Changes of Matter.

\_\_\_ Video: Properties of Matter <https://www.youtube.com/watch?feature=player_embedded&v=C4pQQQNwy30/> Summarize what you learned.

\_\_\_\_\_Properties of Matter Worksheet……See teacher

\_\_\_\_PowerPoint Changes in Matter Chemical and Physical ( Notes)

\_\_\_\_Video Study Jam Chemical and Physical Changes

\_\_\_\_Chemical and Physical Changes Foldable (How to tab on Weebly page)

\_\_\_\_Lab: Physical and Chemical changes

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