Bell Ringer #5:

Socrative Room Name: LEVEL70WARRIOR

Conversion Problems

http://drmoad.weebly.com/

Page 1

Agenda

Bell Ringer
New Binder Procedure
Scientific Notation
Chemical & Physical Changes
Lab
Homework

Return Binders:

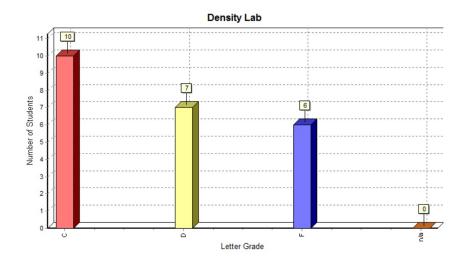
Please put a white label on your binder and write your name on it.

Please remove 1/2 of the graph paper and put it in you locker.

New Procedure: Please hand in future labs and notes in a pocket folder.

Page 3

Comments on Density Lab



No A's or B's!!!

Practice Problem

Convert:

3,500 in to km

Page 5

Practice Problem

Convert:

3,500 in to km

$$\frac{3500 \,\text{in}}{1} \times \frac{2.54 \,\text{cm}}{1 \,\text{in}} \times \frac{1m}{100 \,\text{cm}} \times \frac{1 \,\text{km}}{1000 \,m} = 0.0889 \,\text{km}$$

https://www.google.com/search?q=3500+in+in+km

Convert to Scientific Notation

500,000

0.0009

 5×10^{5}

 9×10^{-4}

Move LEFT positive exponent

Move RIGHT negative exponent

 5.0×10^5

It's a clear way to indicate the number of significant figures

https://en.wikipedia.org/wiki/Scientific_notation https://www.mathsisfun.com/numbers/scientific-notation.html

Page 7

Physical Transformations

- During a physical change, some properties of a material change, but the composition of a material does not change.
- Melting is a physical change.
- Certain words are clues for a physical change such as break, split, grind, cut, and crush

Physical Properties

- They are used to observe and describe matter.
- They can be observed or measured without changing the composition of matter.
- They include: appearance, texture, color, odor, melting point, boiling point, density, solubility, polarity, and many others.

http://examples.yourdictionary.com/examples-of-physical-properties.html https://en.wikipedia.org/wiki/Physical_property

Page 9

Physical Properties

- An extensive property is a property that depends on the amount of matter in a sample. (e.g. mass, volume)
- An intensive property is a property that depends on the type of matter in a sample, not the amount of matter. (e.g. temperature, color, melting point)

Chemical Transformations

- A chemical change is a change that produces matter with a different composition than the original matter.
- Clues for a Chemical Change/Reaction:
 - Color change
 - Temperature change
 - Gas is produced
 - Precipitate is formed

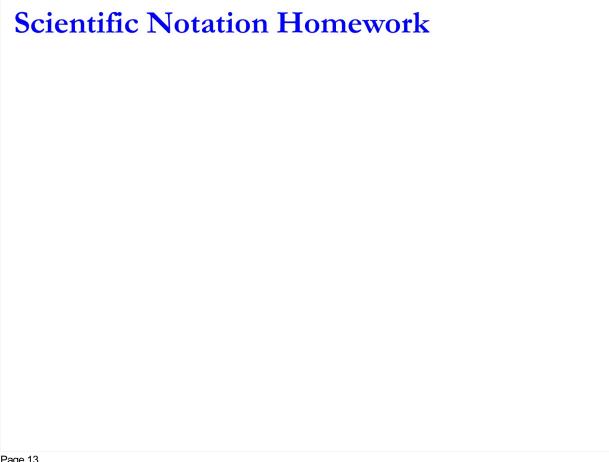
http://examples.yourdictionary.com/examples-of-chemical-properties.html https://en.wikipedia.org/wiki/Chemical_property

Page 11

Observations of Cupric Chloride

- WEAR SAFTEY GLASSES AT ALL TIMES.
- Do not touch the chemicals
- Loosely crumple up the aluminum foil.
- Leave beaker on your table at the end of the lab session,
 Dr. Moad will dispose of the chemicals
- Wash your hands when you are finished with the lab.
- Do TITLE, INTRODUCTION, and PROCEDURE on your own time.
- Start by reading lab and making your data tables
- Lab Report Due Thursday

http://drmoad.weebly.com/



Page 13