Bell Ringer #6:

Socrative Room Name: LEVEL70WARRIOR

Physical Changes vs.
Chemical Changes

Please hand in you Scientific Notation Homework

http://drmoad.weebly.com/

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Agenda

Bell Ringer

Lab Reports: Analysis Questions

Lab Reports: Graph & Conclusion

Scientific Notation

Magnesium Demo

Start Aluminium Foil Thickness Lab

Analysis Questions:

1. Graph your data. Put your temperature data on the Y axis (vertical) and time on the X axis (horizontal). The graph should have a descriptive title, labeled axes, and take up a whole page.

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Analysis Questions:

2. List five qualitative observations from the lab

Analysis Questions:	
3. List three quantitative observations from	m the lab

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Analysis Questions:

4. How do you know a chemical reaction occurred?

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

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Analysis Questions:

5. When was the chemical reaction over? How did you known the reactions was over?

Analysis Questions:

6. Place a star (*) on the graph when the reaction ended.

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Board Meeting:

Draw a line down the center of your board.

Left Side: Write your conclusion. Include your reasoning for which type of change occurred in the lab an back it up with evidence.

Right Side: Crudely draw your graph.

Cupric Chloride Lab:

Please hand in your completed lab report.

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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

Practice Problem

Convert:

3,500 into scientific notation

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Practice Problem

Convert:

0.0000345 into scientific notation

Practice Problem

Convert:

 16.8×10^4 to a decimal number

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Practice Problem

Convert:

 7.14×10^{-3} to a decimal number

Magnesium Demonstration

- Wear Safety Goggles
- Observe the Magnesium initially
- Discuss the Bunsen Burner
- Observe the Magnesium burn
- Observe the Remaining Material

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New Lab: Aluminium Foil Thickness

Great Value Brand Aluminium Foil Thickness = 0.00090 in

1 in = 2.54 cm

Convert to cm