

Honors Chemistry Summer Assignment 2017

Date: June 2017

To: Honors Chemistry Students

Topic: Summer Work

Welcome to Honors Chemistry. In order to make the most of our time together, you will need to do a bit of preliminary work before you begin class. All of the work is web-based. If you do not have internet access at home, you can work at a community library or our school library during summer hours. In order to be successful this year in Honors Chemistry, you must have a strong understanding of the following topics. If you do not, you will find yourself behind consistently throughout the year, as we will not be able to stop and review concepts learned in Physical Science. Most of the information is a review of information you learned in Physical Science. You do NOT need to hand the work in BUT you ARE responsible for the information. If you have any questions during the summer, please feel free to email me at brostl@lcmrschools.com. Please check my website at <https://lnzbrost.wixsite.com/brost> for updates as the 2017-18 school year approaches.

1. Metric System

Use the following website – you may need to copy/paste into the Google search bar

<http://www.chemteam.info/ChemTeamIndex.html> . Read the tutorial and do the practice problems at the end of the tutorial. There are answers provided so that you can check your work.

- Metric System-tutorial and problem sets 1, 2 and 3
 - **You are expected to be able to convert within the metric system prior to the first day of Chemistry.**
- Significant Figures, Density and Scientific Notation-tutorials 1,2,3,4,5,6
- Matter-tutorials 1,2,3,4,5,6,7

2. Periodic Table

Use the following link <http://www.ptable.com/>. You should have a good grasp on all of the following required knowledge:

- Review the names and symbols of the following elements
 - #1-40, 42, 47-58, 74, 78-89,92

- Locate and know (WELL) metals, nonmetals, and metalloids on the Periodic Table
- Know the difference between groups and periods
- Locate the following groups: alkali, alkaline earth, transition metals, halogens, and noble gases

3. Atomic Structure

- Subatomic particles (locations, size, charge)
- Valence electrons

<http://www.sciencegeek.net/Chemistry/Quizzes/AtomicStructure/>

3. Be prepared to discuss an event related to Chemistry that occurred over the Summer. Keep your eyes (and ears) open for a topic in which you find interesting.