**AP Chemistry (Hon. Chem II)**

**Summer Assignment Selected Answers**

* I did not include all answers to problems that required no calculated work, but I have included some to ensure you are doing these problems correctly.
* Remember, you will be turning in this packet! **NO WORK = NO CREDIT!!!!!!!!!!!!**

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| 1. | a. 5.08 meters  b. 300 centimeters  c. 10,000 meters  d. 3.264 x 10-6 L  e. 2.79 x 1079 decades  f. 3.3 x 105 cm2 |
| 2. | 8 in (7.92 in without sigfig) |
| 3. | 94.5 miles |
| 4. | List of polyatomic ions: <http://yourchemcoach.com/polyatomic_ions.pdf>  a.BaSO4  d. MgF2  i. Pb(C2H3O2)3  j. KMnO4  l. Fe(OH)3 |
| 5. | a. Copper (II) sulfate  c. Lithium Nitride  e. dintrogen tetrafluoride  k. Magnesium hydroxide  m. silver bromide  o. acetic acid |
| 6. | 0.979 g O2 |
| 7. | 1.34 x 1024 molecules N2 |
| 8. | Fe2S3 |
| 9. | C9H21 |
| 10. | 117 g Pt |
| 11. | CaCl2 • 6 H2O |
| 12. | 0.748 g Cu |
| 13. | a.  b. Br2  c. 3.1 g H2  d. 2.6 L HBr |
| 14. | a. HINT on balancing: coefficient for NH3 is 2  b. 127 g HCN, 253 g H2O  c. 82.7 % yield |