**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 metersb. 300 centimetersc. 10,000 metersd. 3.264 x 10-6 Le. 2.79 x 1079 decadesf. 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.BaSO4d. MgF2i. Pb(C2H3O2)3j. KMnO4l. Fe(OH)3 |
| 5.  | a. Copper (II) sulfatec. Lithium Nitridee. dintrogen tetrafluoridek. Magnesium hydroxidem. silver bromideo. 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. Br2c. 3.1 g H2d. 2.6 L HBr |
| 14. | a. HINT on balancing: coefficient for NH3 is 2b. 127 g HCN, 253 g H2Oc. 82.7 % yield |