

College Prep Chemistry of the Earth System

Assignment 4G

30 Points

Ionic Compounds with Polyatomic Ions

Write the formula and name the following standard polyatomic ions

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| 1. Na and ClO_3^{1-} | 5. Pb^{4+} and CO_3^{2-} |
| 2. Al and NO_3^{1-} | 6. Cu^{2+} and PO_4^{3-} |
| 3. Mg and SO_4^{2-} | 7. Ag^{1+} and OH^{1-} |
| 4. K and CrO_4^{2-} | 8. W^{6+} and CN^{1-} |

Write the formula and name the following conjugated polyatomic ions

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| 9. Li and ClO_2^{1-} | 11. Fe^{3+} and CO_2^{2-} |
| 8. Ca and SO_3^{2-} | 12. Co^{2+} and PO_3^{3-} |
| 9. Al and CrO_3^{2-} | 13. Cd^{1+} and BrO_2^{1-} |
| 10. Sr and NO_2^{1-} | 14. Pd^{3+} and IO_2^{1-} |