

Part I. Write the chemical formulas for the following polyatomic ions.

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| 1. Iron (II) Hydroxide | 2. Iron (III) Phosphate | 3. Calcium Carbonate |
| 4. Magnesium Hydrogen Sulfate | 5. Ammonium Nitrate | 6. Cesium Sulfate |
| 7. Titanium Carbonate | 8. Ammonium Chloride | 9. Ammonium Dihydrogen Phosphate |
| 10. Ammonium Oxide | 11. Copper (I) Nitrate | 12. Lithium Sulfate |
| 13. Silver Phosphate | 14. Rubidium Carbonate | 15. Barium Bicarbonate |
| 16. Hydrogen Sulfate | 17. Hydrogen Thiosulfate | 18. Magnesium Dichromate |
| 19. Hydromium Chromate | 20. Ammonium Silicate | 21. Hydronium Oxalate |

Part II. Write the chemical names for the following polyatomic ions.

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| 22. $\text{Ca}(\text{HCO}_3)_2$ | 23. $\text{Fe}(\text{OH})_3$ | 24. $\text{Zn}(\text{HSO}_4)_2$ |
| 25. MgCO_3 | 26. Fr_3PO_4 | 27. $\text{Pb}(\text{HCO}_3)_2$ |
| 28. NH_4Br | 29. $(\text{NH}_4)_3\text{PO}_3$ | 30. Ag_2SO_4 |
| 31. $\text{Ra}(\text{NO}_3)_2$ | 32. $\text{Sc}(\text{HCO}_3)_3$ | 33. $\text{Sr}(\text{HSO}_4)_2$ |
| 34. $\text{Ti}_3(\text{PO}_4)_2$ | 35. KOH | 36. $\text{Ca}(\text{OH})_2$ |
| 37. CaCO_3 | | |

Answer List

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| 1. $\text{Fe}(\text{OH})_2$ | 2. FePO_4 | 3. CaCO_3 |
| 4. $\text{Mg}(\text{HSO}_4)_2$ | 5. NH_4NO_3 | 6. Cs_2SO_4 |
| 7. TiCO_3 | 8. NH_4Cl | 9. $\text{NH}_4\text{H}_2\text{PO}_4$ |
| 10. $(\text{NH}_4)_2\text{O}$ | 11. CuNO_3 | 12. Li_2SO_4 |
| 13. Ag_3PO_4 | 14. Rb_2CO_3 | 15. $\text{Ba}(\text{HCO}_3)_2$ |
| 16. H_2SO_4 | 17. $\text{H}_2\text{S}_2\text{O}_3$ | 18. MgCr_2O_7 |
| 19. $(\text{H}_3\text{O})_2\text{CrO}_4$ | 20. $(\text{NH}_4)_2\text{SiO}_3$ | 21. $(\text{H}_3\text{O})_2\text{C}_2\text{O}_4$ |
| 22. Calcium Bicarbonate | 23. Iron (III) Hydroxide | 24. Zinc Hydrogen Sulfate |
| 25. Magnesium Carbonate | 26. Francium Phosphate | 27. Lead (II) Bicarbonate |
| 28. Ammonium Bromide | 29. Ammonium Phosphate | 30. Silver Sulfate |
| 31. Radium Nitrate | 32. Scandium Bicarbonate | 33. Strontium Hydrogen Sulfate |
| 34. Titanium Phosphate | 35. Potassium Hydroxide | 36. Calcium Hydroxide |
| 37. Calcium Carbonate | | |