

Naming Chemical Formulas

Multivalent metals:

- | | | | |
|----------------------------|-------|-----------------------------|-------|
| 1. Cu_2S | _____ | 7. Cr_2O_3 | _____ |
| 2. CuS | _____ | 8. Co_2O_3 | _____ |
| 3. FeO | _____ | 9. CoO | _____ |
| 4. Fe_2O_3 | _____ | 10. Cu_3N_2 | _____ |
| 5. HgS | _____ | 11. PdS_2 | _____ |
| 6. NiO | _____ | 12. UP_3 | _____ |

Use your periodic table to create two multivalent compounds for your neighbour to name.
teacher:

13. _____
14. _____

Neighbours name:

Polyatomic Ions:

- | | | | |
|-------------------------------|-------|--|-------|
| 1. CaCO_3 | _____ | 7. $\text{Al}(\text{OH})_3$ | _____ |
| 2. KClO_3 | _____ | 8. Li_2CO_3 | _____ |
| 3. Na_2SO_4 | _____ | 9. NaClO_4 | _____ |
| 4. KNO_3 | _____ | 10. $\text{Ca}(\text{OH})_2$ | _____ |
| 5. K_3PO_4 | _____ | 11. CuClO_3 | _____ |
| 6. $\text{Ca}(\text{NO}_3)_2$ | _____ | 12. $\text{Pb}(\text{CH}_3\text{COO})_2$ | _____ |

Writing Chemical Formulas:

Multivalent Metals:

- | | | | |
|--------------------------|-------|--------------------------|-------|
| 1. Mercury(II) sulphide | _____ | 7. Lead(I)phosphate | _____ |
| 2. Lead (IV) bromide | _____ | 8. Copper(II) sulfide | _____ |
| 3. Tin (II) chloride | _____ | 9. Copper (II) sulphate | _____ |
| 4. Mercury(II) sulphide | _____ | 10. Nickel (II)carbonate | _____ |
| 5. Cobalt(III) oxide | _____ | 11. Chromium (III) oxide | _____ |
| 6. Lanthanum(III)sulfide | _____ | 12. Copper (I) chlorate | _____ |

Polyatomic Ions:

Fill in the formulas for the first six polyatomic ions.

Then create six more for your ^{teacher}neighbour to solve.

Neighbours' Name: _____

- | | | | |
|----------------------|-------|-----|-------|
| 1. Zinc hypochlorite | _____ | 7. | _____ |
| 2. Scandium silicate | _____ | 8. | _____ |
| 3. Tungsten sulphate | _____ | 9. | _____ |
| 4. Ammonium sulphate | _____ | 10. | _____ |
| 5. Iron(II) nitrate | _____ | 11. | _____ |
| 6. Sodium chromate | _____ | 12. | _____ |

Test yourself:

Use this space to answer #12 on pg. 224 of your textbook.