

## bonus for nomenclature (Homework)

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1.

Write the formula for each of the following substances. (Type your answer using the format CH<sub>4</sub> for CH<sub>4</sub> and (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub> for (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub>.)

- (a) nitrous acid
- (b) ammonium dichromate
- (c) strontium nitrate
- (d) lithium peroxide
- (e) hydrotelluric acid
- (f) calcium bromide
- (g) hypochlorous acid
- (h) sodium hydrogen phosphate
- (i) calcium chlorate
- (j) cesium perchlorate
- (k) lithium sulfate
- (l) sodium peroxide

2.

Name the following compounds. (Type your answer using the format iron(II) for Fe<sup>2+</sup>.)

- (a) Fe<sub>2</sub>(CO<sub>3</sub>)<sub>3</sub>
- (b) HClO<sub>3</sub>
- (c) Cr<sub>2</sub>S<sub>3</sub>
- (d) CoCl<sub>3</sub>
- (e) CuSO<sub>4</sub>
- (f) LiHCO<sub>3</sub>
- (g) Cu(MnO<sub>4</sub>)<sub>2</sub>

3.

Name each of the following binary compounds of nonmetallic elements.

- (a) IF<sub>5</sub>
- (b) AsCl<sub>3</sub>
- (c) SeO
- (d) XeF<sub>4</sub>
- (e) NI<sub>3</sub>
- (f) B<sub>2</sub>O<sub>3</sub>

4.

Name each of the following compounds.

- (a) BrF
- (b) SF<sub>6</sub>
- (c) Fe(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>3</sub>
- (d) CaCrO<sub>4</sub>

- (e)  $\text{K}_2\text{O}_2$
- (f)  $\text{OF}_2$

5.

Write the name of each of the following ionic substances, using the system that includes a Roman numeral to specify the charge of the cation.

- (a)  $\text{SnBr}_4$
- (b)  $\text{PbBr}_2$
- (c)  $\text{HgO}$
- (d)  $\text{FeCl}_3$
- (e)  $\text{MnI}_2$
- (f)  $\text{CoCl}_3$