

Activity 5  
Acid Nomenclature

Hydrogen compounds – given the formula and state, name appropriately; given the name, write the appropriate formula and the state.

1.  $\text{HCl}_{(\text{aq})}$  \_\_\_\_\_
2.  $\text{HI}_{(\text{g})}$  \_\_\_\_\_
3.  $\text{H}_2\text{S}_{(\text{aq})}$  \_\_\_\_\_
4.  $\text{HBr}_{(\text{aq})}$  \_\_\_\_\_
5.  $\text{HCN}_{(\text{aq})}$  \_\_\_\_\_
6. hydroiodic acid \_\_\_\_\_
7. hydrogen bromide \_\_\_\_\_
8. hydrogen sulfide \_\_\_\_\_
9. hydrofluoric acid \_\_\_\_\_
10. hydrotelluric acid \_\_\_\_\_

Oxyacids – given the formula, name: given the name, write the formula

1.  $\text{H}_2\text{SO}_3$  \_\_\_\_\_
2.  $\text{H}_3\text{PO}_4$  \_\_\_\_\_
3.  $\text{HNO}_3$  \_\_\_\_\_
4.  $\text{H}_2\text{CO}_3$  \_\_\_\_\_
5.  $\text{H}_2\text{TeO}_4$  \_\_\_\_\_
6.  $\text{HIO}_3$  \_\_\_\_\_
7.  $\text{HClO}_3$  \_\_\_\_\_
8.  $\text{H}_2\text{SeO}_3$  \_\_\_\_\_
9.  $\text{HBrO}_2$  \_\_\_\_\_
10.  $\text{HClO}$  \_\_\_\_\_

11. sulfuric acid 

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12. nitrous acid 

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13. perchloric acid 

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14. bromic acid 

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15. nitric acid 

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16. selenic acid 

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17. periodic acid 

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18. arsenic acid 

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19. perbromic acid 

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20. hypoiodous acid 

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