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Model 2 – Ternary Acids (Oxyacids)

Acid	Name of Acid in Aqueous Solution	Cation (+)	Polyatomic Anion (-)	Polyatomic Anion Name
HClO <sub>3</sub>	Chloric acid	H <sub>3</sub> O <sup>+</sup>	ClO <sub>3</sub> <sup>-1</sup>	Chlorate
H <sub>2</sub> SO <sub>3</sub>	Sulfurous acid	2H <sub>2</sub> O <sup>+</sup>	SO <sub>3</sub> <sup>-2</sup>	Sulfite
H <sub>2</sub> SO <sub>4</sub>	Sulfuric acid	2H <sub>3</sub> O <sup>+</sup>	SO <sub>4</sub> <sup>-2</sup>	Sulfate
H <sub>3</sub> PO <sub>3</sub>	Phosphorous acid	3H <sub>3</sub> O <sup>+</sup>	PO <sub>3</sub> <sup>-3</sup>	Phosphite
H <sub>3</sub> PO <sub>4</sub>	Phosphoric acid	3H <sub>3</sub> O <sup>+</sup>	PO <sub>4</sub> <sup>-3</sup>	Phosphate
HNO <sub>3</sub>	Nitric acid	H <sub>3</sub> O <sup>+</sup>	NO <sub>3</sub> <sup>-1</sup>	Nitrate
HNO <sub>2</sub>	Nitrous acid	H <sub>3</sub> O <sup>+</sup>	NO <sub>2</sub> <sup>-1</sup>	Nitrite
H <sub>2</sub> CO <sub>3</sub>	Carbonic acid	2H <sub>3</sub> O <sup>+</sup>	CO <sub>3</sub> <sup>-2</sup>	Carbonate

6. Look at the formulas of the ternary acids in Model 2.

a. How are ternary acids different from binary acids in their structure?

*Ternary acids contain three elements and they also contain the element oxygen.*

b. What number do you think the prefix "ter-" refers to?

*"ter" refers to three*

7. When ternary acids are mixed with water, ions will form. Fill in the table above with the formulas and names of the anions.

8. Examine the pairs of ternary acids in Model 2 that contain sulfur, phosphorus, and nitrogen. Each pair has one acid that ends in "-ic" and another that ends in "-ous." These endings are related to the name of the polyatomic anion found in the acid ("-ate" or "-ite"). Complete the statements below with the correct acid name ending.

Polyatomic anion ending is "-ate" → acid name ending is "ic"

Polyatomic anion ending is "-ite" → acid name ending is "ous"

9. If the prefix "hydro-" were used to name a ternary acid, what problem would this create when naming HClO<sub>3</sub>? *ClO<sub>3</sub><sup>-1</sup> has the name of chlorate. "ate" must be replaced with "ic". If "hydro" is used as a prefix, it would be hydrochloric acid. This has the formula HCl, not HClO<sub>3</sub>.*

10. Write a rule for naming ternary acids. *- The prefix "hydro" is not used in the name when an acid contains more than two elements and one of the elements is oxygen. - "ate" is replaced with "ic" and "ite" is replaced with "ous".*

11. Predict the formula for chlorous acid.



12. Circle the acid(s) below that would be named beginning with the prefix "hydro-."



Key

NAMING ACIDS

Name Key

Name the following acids.

- HNO<sub>3</sub> nitric acid
- HCl hydrochloric acid
- H<sub>2</sub>SO<sub>4</sub> sulfuric acid
- H<sub>2</sub>SO<sub>3</sub> sulfurous acid
- HC<sub>2</sub>H<sub>3</sub>O<sub>2</sub> acetic acid
- HBr hydrobromic acid
- HNO<sub>2</sub> nitrous acid
- H<sub>3</sub>PO<sub>4</sub> phosphoric acid
- H<sub>2</sub>S hydrosulfuric acid
- H<sub>2</sub>CO<sub>3</sub> carbonic acid

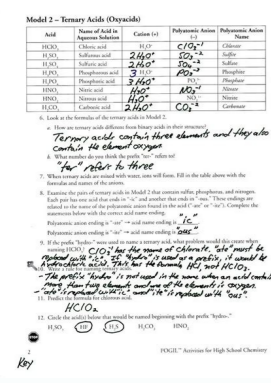
Write the formulas of the following acids.

- sulfuric acid H<sub>2</sub>SO<sub>4</sub>
- nitric acid HNO<sub>3</sub>
- hydrochloric acid HCl
- acetic acid HC<sub>2</sub>H<sub>3</sub>O<sub>2</sub> or CH<sub>3</sub>COOH
- hydrofluoric acid HF
- phosphorous acid \* H<sub>2</sub>PO<sub>3</sub>
- carbonic acid H<sub>2</sub>CO<sub>3</sub>
- nitrous acid HNO<sub>2</sub>
- phosphoric acid H<sub>3</sub>PO<sub>4</sub>
- hydrosulfuric acid H<sub>2</sub>S

# NAMING IONIC COMPOUNDS

Name \_\_\_\_\_

- Name the following compounds using the Stock Naming System <sup>and traditional</sup> (where appropriate)
- $\text{CaCO}_3$  calcium carbonate
  - $\text{KCl}$  potassium chloride
  - $\text{FeSO}_4$  iron(II) sulfate ferrous sulfate
  - $\text{LiBr}$  lithium bromide
  - $\text{MgCl}_2$  magnesium chloride
  - $\text{FeCl}_3$  iron(III) chloride ferric chloride
  - $\text{Zn}_3(\text{PO}_4)_2$  zinc phosphate
  - $\text{NH}_4\text{NO}_3$  ammonium nitrate
  - $\text{Al}(\text{OH})_3$  aluminum hydroxide
  - $\text{Cu}_2\text{C}_2\text{H}_3\text{O}_2$  copper(I) acetate cuprous acetate
  - $\text{PbSO}_3$  lead(II) sulfite plumbous sulfite
  - $\text{NaClO}_3$  sodium chlorate
  - $\text{CaC}_2\text{O}_4$  calcium oxalate
  - $\text{Fe}_2\text{O}_3$  iron(III) oxide ferric oxide
  - $(\text{NH}_4)_3\text{PO}_4$  ammonium phosphate
  - $\text{NaHSO}_4$  sodium bisulfate / sodium hydrogen sulfate
  - $\text{Hg}_2\text{Cl}_2$  mercurous chloride mercurous chloride
  - $\text{Mg}(\text{NO}_2)_2$  magnesium nitrite
  - $\text{CuSO}_4$  copper(II) sulfate cupric sulfate
  - $\text{NaHCO}_3$  sodium bicarbonate / sodium hydrogen carbonate
  - $\text{NiBr}_2$  nickel(II) bromide
  - $\text{Be}(\text{NO}_3)_2$  beryllium nitrate
  - $\text{ZnSO}_4$  zinc sulfate
  - $\text{AuCl}_3$  gold(III) chloride
  - $\text{KMnO}_4$  potassium permanganate



Naming acids worksheet answers. Naming acids worksheet answers chemistry. Naming carboxylic acids worksheet with answers pdf. Naming acids worksheet answers pogil. Naming acids and bases worksheet answers. Practice worksheet naming acids worksheet answers. Naming carboxylic acids worksheet with answers. Naming acids and bases worksheet/notes answers.

I said I would go along with that. Michael and Linda were the fourth most common baby names in the century before 2018. Raw, honest, empowering, inspiring and fun, jthreeNMe is chicken soup for those who are exhausted, overwhelmed and under-inebriated, but still totally happy and eager to improve. James and Mary are the most common first names. He asked me to be kind to myself. He asked me to trust. But while there were only 198,931 more Jameses than Johns born from 1918 to 2017, there were 1,829,293 more Marys than Patricias. Grace called my name, so I answered, and if she calls yours, I hope you will too. This post comes from the TODAY Parenting Team community, where all members are welcome to post and discuss parenting solutions. I shrugged my shoulders and accepted the direction. There were 4,315,462 and 1,448,097 of these respectively. Robert and Jennifer Williams Robert and Jennifer are both very versatile names. > See my posts > Visit my blog Author of MUSINGS FOR MOM, ONCE UPON A PANDEMIC & IF YOU GIVE A KID A MASK \*On Amazon & B&N.com\* \*1.6 million+ readers on NBCUniversal's TODAY\* Freelance Writer/Podcast Host/Owner & Founder, jthreeNMe: an imperfectly authentic look at real-life parenting, marriage and self-improvement. There were 1,094,924 Rodriguezes in 2010. He told me to concentrate on the blessings of my girl. And of all the boys born between 1918 and 2017, 2,174,023 were Thomases. 1,625,252 people had the last name Williams in 2010. John and Patricia Johnson OK, so you may not find many John Johnsons; but both occupy the number two spot. These accounted to 2,384,205 and 1,043,436 baby names, respectively. Perhaps this is why they are so popular. However, in 2010, 1,116,357 people had the surname Davis. Richard and Susan Miller The sum of 2,487,983 Richards adds up to 1.43% of all boys born between and 2017. I agreed. In the 2010 Census, 2,442,977 of them were counted. counted, the tenth most common first names over the last 100 years have been Charles (2,144,937 or 1.23 percent of 173,916,919 male births) and Margaret (993,136 or 0.59 percent of 169,671,039 female births). The ninth most common last name was also Hispanic. Of all baby boys born 1918-2017, 4,571,203 (2.63 percent) were called Robert, while 1,465,928 (0.86 percent) of all girls were called Jennifer. I promised I will. But over the past century, there have been more than 3,557,293 Davids and over 1,410,059 Barbaras. William and Elizabeth Jones Love them or loathe them, the British royal family have long been the inspiration for baby names. I said eAAAtcAAAm working on it. eAAA It requested I eAAApractice the pause. eAAA I paused, and said eAAAokay. eAAA It recommended I get comfortable with my mess. MORE FROM QUESTIONS ANSWERED.NET EspaAA±AoItalianoEnglishSrpskiPolskiAAAAAAAA°AA, AA°APortuguAA°AsFranAAaisDeutsch AA Arkansas State University Department of Chemistry and Physics AA Write the formula for each of the acids listed below: AA Nitric acid AA HNO3 Hydrocyanic acid AA AHCN (aq) Chloric acid AA AHClO3 Acetic acid AA AH3COOH Hydrobromic acid AA AHBr (aq) Sulfurous acid AA AH2SO3 Chlorous acid AA AHClO2 Boric acid AA AH3BO3 Hydrochloric acid AA AHCl (aq) Phosphoric acid AA AH3PO4 Nitrous acid AA AHNO2 Hydrofluoric acid AA AHF (aq) Perchloric acid AA AHClO4 Hydroiodic acid AA AHI (aq) Phosphorous acid AA AH3PO3 Carbonic acid AA AH2CO3 Sulfuric acid AA AH2SO4 Formic acid AA AHCOOH Name each of the following acids: HClO4 AA A perchloric acid HCOOH AA A formic acid H3PO4 AA A phosphoric acid HCl (aq) AA A hydrochloric acid H3BO3 AA A boric acid H2SO4 AA A sulfuric acid HNO2 AA A nitrous acid HI (aq) AA A hydroiodic acid CH3COOH AA A acetic acid HF (aq) AA A hydrofluoric acid H3PO3 AA A phosphorous acid HCN (aq) AA A hydrocyanic acid HClO3 AA A chloric acid H2CO3 AA A carbonic acid H2SO3 AA A sulfurous acid HClO2 AA A chlorous acid HNO3 AA A nitric acid HBr (aq) AA A hydrobromic acid The 1,564,163 Patricias (Pat, Patty, Trisha, they represent 0.92% of all women's births between 1918 and 2017. James and Mary Smith AA e Surprises here: Smith is by far the most common name in the USA. Diminutive include Rob, Bob, Robbie, Bobby, and Jen, Jenna, Jenny and Jennie. She begged me to accept myself, to others and all my days as they arrived. He asked me to be patient with others. As for Millers, there were 1,161,437 of these registered in 2010. David and Barbara Garcia NOUTRO HISPAAO surname enters the number six. Good luck to accompany the Joneses, however, there was 1,425,470 of these in 2010. Michael and Linda Brown more common last name room in 2010 was Brown, with 1,437,026 occurrences. I said I'll do it. This was the most common surname depimo in the country. He demanded that I relaxed a little. The administration of social security (SSA) compiles a list of the names of the most popular babies in the last 100 years. The 3,393,456 fondsmas called Mary Accounted for 2 percent of all births of girls. The following list includes both male and female names - classifieds from 10 to 1st, as well as the most common surnames based on the 2010 Census. Charles and Margaret Martinezem 2010, 1,060,159 people in the US had the last name Martinez. The 1,106,071 Susans account for 0.65% of the total of baby births. A total of 2.64% of the boys (4,594,023 born in the last season) received the name of John, and the last census registered 1,932,812 supernomes like Johnson. He begged me to affirm my value and the one that I love and made him daily. This represents maybe the most complete picture of the most common names in the United States. A total of 996,554 girls were named Sarah. Joseph and Jessica Davisues common names as the eighth most popular in the Americans: the Bank Joseph and Jessica. Learn more and join us! Because we're all together in this. Grace called my name, so I answered. Were 3,662,399 Williams between 1918 and 2017 and 1,443,415 1.443.415 There were 1,166,120 Garcions in the 2010 census. I said I will try. Try.

19/2/2022 · Extra Practice Worksheet #1 - Oxyanions, Binary Acids, Oxyacids (\*ANSWERS) Extra Practice Worksheet #2 - Writing and Naming Polyatomic Compounds (\*ANSWERS) ... Ionic Bonding Worksheet Answer Key Print Yup Covalent Bonding Ionic Bonding Covalent Bonding Worksheet Choose words from the list to fill in the blanks in the paragraph. Biology Questions and Answers Form 2 · High School Biology Tests/Exams. CH141 Exam II 2016 with Answers. 18. Date. 122. Cohesion \_\_\_\_ d. Dec 21, 2020 - general biology final exam name: f2020 100 part multiple choice (85 marks) answer all multiple choice questions on the answer sheet provided Rating: 4. About This Quiz & Worksheet. You can use these tools to answer questions having to do with topics such as alkanes, alkenes, double bonds, and hydrocarbons. Temperature Patterns Worksheet. PDF. Small electric cells (commonly called batteries, as in AA batteries) Middle School Junior High Science Printable Worksheets I abcteach provides over 49,000 worksheets page 2 Nov 09, 2021 - Sixth grade ...

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