

## Naming Acids

What makes an acid unique and how are acids named?

### Why?

A variety of acids are used in foods, industry, and research. Acids are covalently bonded molecules, but when they are put into water they produce ions. One of the ions produced is always  $H^+$ , which immediately combines with a water molecule to form the hydronium ion ( $H_3O^+$ ). The  $H_3O^+$  ion is what defines the acidic properties of a substance. Because of their special classification, acids have a naming system different from ionic or other molecular (covalent) compounds.

### Model 1 – Binary Acids

Acid	Name of acid in aqueous solution	Cation (+)*	Anion (–)
HCl	Hydrochloric acid	$H_3O^+$	$Cl^-$
HBr	Hydrobromic acid	$H_3O^+$	$Br^-$
$H_2S$	Hydrosulfuric acid	$2H_3O^+$	$S^{2-}$
HF	Hydrofluoric acid	$H_3O^+$	$F^-$

\*Hydrogen ions ( $H^+$ ) join with water molecules in solution to form hydronium ions,  $H_3O^+$ .

1. Complete the cation and anion columns of the table in Model 1. Be careful to show the charges on the ions.
2. Why does hydrosulfuric acid contain two hydrogens?

*Two hydrogens with a +1 charge are required to balance the 2– charge of the sulfide anion.*

3. Look at the formulas and names of the binary acids in Model 1.
  - a. What prefix is used at the beginning of the name for all binary acids?

*Binary acids begin with the prefix “hydro-.”*

- b. What suffix is used at the end of the name for all binary acids?

*The names of binary acids end with “-ic,” followed by the word “acid.”*

4. The prefix “bi-” means “two.” Propose a reason that the acids in Model 1 are all referred to as “binary” acids.

*All binary acids have two different elements or atoms in them.*



5. Write a rule for naming binary acids.

*All binary acids begin with the prefix hydro-, which precedes the name of any nonmetal other than hydrogen, in the compound. The name of this nonmetal is modified to end with the suffix -ic.*

*Example: hydro\_\_\_\_\_ic acid.*



# Pogil Naming Acids Worksheet Answers

**Thomas Griffiths**



## **Pogil Naming Acids Worksheet Answers:**

The Top Books of the Year Pogil Naming Acids Worksheet Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Pogil Naming Acids Worksheet Answers : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Pogil Naming Acids Worksheet Answers : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papien, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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