

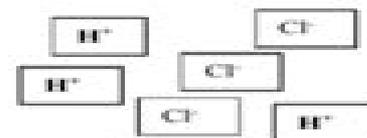
## Acid and Base Strength Worksheet

Name \_\_\_\_\_

Period \_\_\_\_\_ Date \_\_\_\_\_

What makes an acid *acidic* are the *excess hydrogen ions ( $H^+$ )*\* that these substances cause in a water solution.

**Strong acids, like HCl, dissociate (break up) completely** in solution, giving a maximum number of hydrogen ions. Another way to say this is, strong acids **IONIZE** completely while weak acids don't.



So, how do you know which acids are strong and which are weak?  
**Easy; there are a few rules.**

*First, a few definitions:*

- A **binary acid** is made of **two elements**: hydrogen and something else. HCl is a binary acid made of hydrogen and chloride. Count 'em. Hydrogen (one), chloride (two). Ta-da!
- A **ternary acid** is made of **more than two elements**: hydrogen and at least two other elements.  $H_2SO_4$ , with three elements, is a ternary acid. So is  $H_3PO_4$  and acetic acid,  $HC_2H_3O_2$ . (Notice acid formulas always start with a hydrogen. These are the hydrogens that can break free in water to a lesser or greater degree depending on the strength of the acid.)

### THE RULES for deciding if an acid is strong or weak!

- **The only strong binary acids are HCl, HBr, and HI.** (Notice Cl, Br, and I are together on the periodic table.) All other binary acids are weak.
- Ternary acids are a little trickier, but not much. Compare the number of oxygens and hydrogens in the formula. **If the number of oxygens exceeds the number of hydrogens by 2 or more, the acid is strong.** All other ternary acids are weak.

$H_3PO_4$       3 hydrogens and 4 oxygens (only one more oxygen than hydrogen).    WEAK

$H_2SO_4$       2 hydrogens and 4 oxygens (two more oxygens than hydrogen).    STRONG.

\*Technically, the free  $H^+$  usually combines with a water molecule to form a hydronium ion ( $H_3O^+$ ), but we will ignore this for the time being.

# 19 2 Hydrogen Ions And Acidity Worksheet Answers

**Zhe Xu**



## **19 2 Hydrogen Ions And Acidity Worksheet Answers:**

## Unveiling the Magic of Words: A Review of "**19 2 Hydrogen Ions And Acidity Worksheet Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**19 2 Hydrogen Ions And Acidity Worksheet Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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