

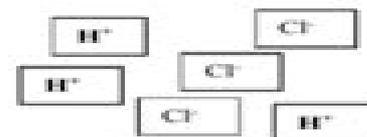
Acid and Base Strength Worksheet

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. H₂SO₄, with three elements, is a ternary acid. So is H₃PO₄ and acetic acid, HC₂H₃O₂. (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.

H₃PO₄ 3 hydrogens and 4 oxygens (only one more oxygen than hydrogen). WEAK

H₂SO₄ 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 (H₃O⁺), but we will ignore this for the time being.

19 2 Hydrogen Ions And Acidity Worksheet Answers

Michael Rajnik



19 2 Hydrogen Ions And Acidity Worksheet Answers:

Whispering the Strategies of Language: An Emotional Quest through **19 2 Hydrogen Ions And Acidity Worksheet Answers**

In a digitally-driven earth wherever screens reign great and quick transmission drowns out the subtleties of language, the profound techniques and emotional nuances hidden within words often move unheard. Yet, situated within the pages of **19 2 Hydrogen Ions And Acidity Worksheet Answers** a captivating fictional prize blinking with organic thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus invites visitors on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within ab muscles fabric of every word. Within the psychological depths of the moving review, we will embark upon a sincere exploration of the book is key themes, dissect its captivating publishing fashion, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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