

## Acids & Bases Ws #1: The World of Chemistry Video

- Name the common acid found in fruits such as lemons and apples.  
**Citric acid**
- What is the common name for acidic acid?
- List 3 properties of Acids  
**produces  $H_2$  gas with a metal**  
**produces  $CO_2$  gas with lime (CaO)**  
**turns litmus paper red**
- List 3 properties of Bases
- What happens when an acid and a base are mixed? **neutralization**
- What are the common products of a neutralization reaction?
- What is the function of the high level of acid in the stomach?  
**Activates enzymes, begins digestion**
- What causes the stomach to produce more acid?
- What is an antacid used for?  
**Neutralize stomach acid**
- What is the common name for a substance that accepts a proton?
- What is the common name for a substance that donates a proton?  
**An acid**
- Can water act as both an acid and a base?
- What is the pH of pure water?  
**7**
- How can we measure pH?
- What does a pH meter measure  
 **$H_3O^+$  ( $H^+$ ) ion concentration**
- What is the pH when the concentration of the hydronium ion  $[H_3O^+]$  is  $10^{-2}$ ?
- The value of the pH becomes larger as the  $[H_3O^+]$  becomes \_\_\_\_\_.  
**smaller**
- How can you determine if an acid is weak or strong?
- What is it that makes one acid strong and another acid weak?  
**Weak acids produce few  $H^+$ , many molecules do not dissociate**
- Does the molarity determine the pH of the solution?
- What is the normal pH of rain?  
**5.6**
- How is rain water made acidic?
- What damage does acid rain cause? **Destroys/damages ecosystems by lowering pH of water**