

**Exam #10 Review: Acids, Bases, and pH**

1. Know the properties of acids and bases. What are their similarities and differences?

Acids

- Taste *sour*
- React with metals to form hydrogen gas
- Contain a hydrogen ion ( $H^{+1}$ )
- pH value less than 7

Bases

- Taste *bitter*
- Feel slippery
- Contain a hydroxide ion ( $OH^{-1}$ )
- pH value greater than 7

BOTH

- change colors of indicators
- react with each other to form salt and water
- conduct electricity when dissolved in solution (electrolytes)

2. Know the rules for naming
- acids**
- (binary acid and oxyacid) and name the following below:

Binary acids (only 2 elements): hydro – element – ic acidOxyacids (contain a polyatomic ion): NO "HYDRO" IN THE NAME

- -ate ion  $\rightarrow$  -ic acid
- -ite ion  $\rightarrow$  -ous acid

REMEMBER:

"I ate something icky,  
all nite I was nauseous"

- a. HCl      **hydrochloric acid**  
b. HF      **hydrofluoric acid**  
c.  $HClO_2$       **chlorous acid**

- d.  $HNO_3$       **nitric acid**  
e.  $H_3PO_4$       **phosphoric acid**  
f.  $H_2SO_3$       **sulfurous acid**

3. Know the rules for naming
- bases**
- and name the following below:

Element + hydroxide

- a. NaOH      **sodium hydroxide**  
b. LiOH      **lithium hydroxide**

- c.  $Al(OH)_3$       **aluminum hydroxide**  
d.  $Ba(OH)_2$       **barium hydroxide**

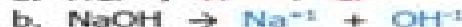
4. How are Arrhenius acids and bases defined?

**Acids – produce  $H^{+1}$  ions in aqueous solutions****Bases – produce  $OH^{-1}$  ions in aqueous solutions**

5. How are Bronsted-Lowry acids and bases defined?

**Acids – donate (give away) a  $H^{+1}$  ion (proton)****Bases – accept (take in) a  $H^{+1}$  ion (proton)**

6. Show how the following acids and bases ionize:



7. If it is a strong acid or base, how much do they ionize in solution?

**STRONG acids & bases COMPLETELY ionize (all break apart) in a solution**

8. If it is a weak acid or base, how much do they ionize in solution?

**WEAK acids & bases do NOT completely ionize**

9. What is a neutralization reaction? What products are always produced?


**Acid reacts with a base****always produces water and a salt**

10. Complete the following neutralization reaction and what type of salt is made:

Type of Salt: neutralType of Salt: neutral

# Acids And Bases Exam Review Guide Answers

**James H. Halsey**



## Acids And Bases Exam Review Guide Answers:

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