

Name \_\_\_\_\_  
Chemistry I-2 HONORS Study Guide for Acids and Bases (Chapter 17)

Students should be able to...

- Know properties of acids and bases
- Know definitions of acids and bases according to Arrhenius, Bronsted-Lowry, and Lewis.
- Label Bronsted-Lowry acid-base reactions as acid, base, conjugate acid, and conjugate base
- Identify polyprotic acids and bases.
- Review naming of acids, both binary and ternary.
- Calculate pH, pOH, H<sup>+</sup> concentration, and OH<sup>-</sup> concentration for either a strong or weak acid or base.
- Calculate the solute and solvent necessary for a dilution
- Calculate the volume necessary to neutralize an acid/base
- Measure the pH and acidity/alkalinity of household chemicals (laboratory)
- Calculate the % by mass of acetic acid in vinegar (laboratory)

Review problems

1. List three properties of acids.
2. List three properties of bases.

Fill in the table concerning definitions of acids and bases.

Definition	Acid	Base
Traditional (Arrhenius)		
	Electron pair acceptor	
		Proton acceptor

Name the following acids. Circle any polyprotic acids.

9. H<sub>3</sub>PO<sub>4</sub> \_\_\_\_\_
10. HF \_\_\_\_\_
11. H<sub>2</sub>S \_\_\_\_\_
12. HNO<sub>3</sub> \_\_\_\_\_
13. HClO<sub>4</sub> \_\_\_\_\_

Solve.

14. [H<sup>+</sup>] =  $5.32 \times 10^{-4}$   
[OH<sup>-</sup>] = \_\_\_\_\_  
pH = \_\_\_\_\_  
pOH = \_\_\_\_\_  
Acid or Base? \_\_\_\_\_

# Guided And Study Workbook Acids And Bases

**Raffaella Di Napoli**



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