

Name KEY Per _____ Date _____

Honors - ACID BASE STUDY GUIDE

How do acids and bases affect our daily lives?
How is acidity measured?
What is an acid/base indicator and how are they used?
How is a titration useful?

SKILLS:

1. Define all vocabulary words
2. Distinguish between acids and bases according to characteristics
3. Name acids and bases.
4. Identify a substance as being an Arrhenius acid or an Arrhenius base (given properties).
5. Identify Bronsted-Lowry acids, bases, and conjugate pairs
6. Determine whether a solution is acidic, neutral, or basic given pH.
7. Determine the magnitude of change in $[H^+]$ given a pH change and vice versa.
8. Calculate pH, pOH, $[H^+]$, $[OH^-]$
9. Interpret changes in acid base indicator color.
10. Identify an Arrhenius neutralization reaction.
11. Write the products of an Arrhenius neutralization reaction.
12. Determine the concentration of an unknown acid or base in neutralization and titration problems.
13. Describe how an acid's strength is related to the value of its acid dissociation constant.
14. Differentiate between a weak and strong acid and be able to calculate the pH given the concentration of the acid.
15. Explain how acid base titration is used to calculate the concentration of an acid or base.
16. Create hydrolysis reactions and determine the pH category of a salt solution.
17. Interpret Table 5: Relative Strengths of Acids, Table K, Table L, Table M

TEST FORMAT :

23 Multiple Choice

10 Constructed Response: regents neutralization and titration, K_a and pH problems, naming acids, bases, and salts, parent acid/base of salt solutions, hydrolysis reactions

Key Acid Base Study Guide

James E. Brady



Key Acid Base Study Guide:

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Organic Chemistry Study Guide & Problems Book Brent L. Iverson,1998 Companion to Organic chemistry 2nd ed by William H Brown Provides a detailed section by section overview of the major points covered in the text All of the problems from the text are reprinted here with detailed stepwise solutions

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