

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

**Deborah B. Proctor, Brigitte
Niedzwiecki, Julie Pepper, Martha
(Marti) Garrels, Helen Mills**

Key Acid Base Study Guide:

Acid-Base Equilibria - Quick Chemistry Review Outline and Handout E Staff, Acid Base Equilibria Quick Review Outline and Handout for All Students Learn and review on the go Use Quick Review Chemistry Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students 10 Pages

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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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Organic Chemistry, Study Guide and Solutions Manual T. W. Graham Solomons, Craig B. Fryhle, 2000 On the cover of this book is a Pacific yew tree found in the ancient forests of the Pacific Northwest The bark of the Pacific yew tree produces Taxol found to be a highly effective drug against ovarian and breast cancer Taxol blocks mitosis during eukaryotic cell division The supply of Taxol from the Pacific yew tree is vanishingly small however A single 100 year old tree provides only about one dose of the drug roughly 300 mg For this reason as well as the spectacular molecular architecture of Taxol synthetic organic chemists fiercely undertook efforts to synthesize it Five total syntheses of Taxol have thus far been reported Now a combination of isolation of a related metabolite from European yew needles and synthesis of Taxol from that intermediate supply the clinical demand This case clearly demonstrates the importance of synthesis and the use of organic chemistry It s just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry

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web the shoe polish was formulated in accordance to the procedure earlier on used in the production of shoe polish from carbon black gumel 2006 15g paraffin wax was melted at 970c to give a fine solution the temperature was lowered to 600 c 2g polyethylene pigment was added and stirred for 5 minutes

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web apr 1 1996 a water resistant shoe polish including in addition to a tradition base mixture of wax and turpentine oil petroleum benzin high vacuum silicone grease glycerin glycerol stearate and stearic

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web it is usually made from ingredients including some or all of naphtha lanolin turpentine wax often called carnauba wax gum arabic ethylene glycol and if required a colourant such as carbon black or an azo dye such as aniline yellow wax comes from a substance between resins and fats

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