

Acids and bases review sheet Answer key

1. List the differences between an acid and a base. Your description should include such things as whether both are electrolytes, which contains a hydrogen ion and which includes a hydroxide ion, and you should also include two examples of an acid and two examples of a base that are present in your household.

Acid	base
Conducts electricity Contains hydrogen ion Proton donor Turns litmus paper red React with most metals Releases hydronium Ex: lemon Vinegar Battery acid (sulfuric acid)	conducts electricity contains hydroxide ion proton acceptor turns litmus paper blue releases hydroxide ion Ex: Windex bleach soap

2. Listed below are some of the properties of acids and bases. Fill in the blanks with the appropriate word, **acids** or **bases**:

- A** produce hydrogen ions (H^+) in solution
- B** have a bitter taste
- B** produce hydroxide ions (OH^-) ions
- A** react with bases to form salts
- A** have a sour taste
- B** have a slippery, soapy feel
- B** react with acids to form salts
- A** react with many metals

3. Write an equation for the dissociation of the following **acids** in water: follow example

- | | |
|---|-------------------------------------|
| a) $HClO_4 \rightarrow H^+ + ClO_4^-$ | d) $H_2S \rightarrow 2H^+ + S^{2-}$ |
| b) $H_2SO_4 \rightarrow 2H^+ + SO_4^{2-}$ | e) $HCl \rightarrow H^+ + Cl^-$ |
| c) $HC_2H_3O_2 \rightarrow H^+ + C_2H_3O_2^-$ | f) $HNO_3 \rightarrow H^+ + NO_3^-$ |

4. Write an equation for the dissociation (ionization) of the following **bases** in water: (follow example)

- | | |
|---|---|
| a) $Mg(OH)_2 \rightarrow Mg^{2+} + 2OH^-$ | d) $KOH \rightarrow K^+ + OH^-$ |
| b) $NaOH \rightarrow Na^+ + OH^-$ | e) $Mg(OH)_2 \rightarrow Mg^{2+} + 2(OH^-)$ |
| c) $Ba(OH)_2 \rightarrow Ba^{2+} + 2(OH^-)$ | f) $LiOH \rightarrow Li^+ + OH^-$ |

5) A. What type of reaction is a **neutralization** reaction? **Double replacement**

B. Write the net equation for neutralization:



Answer Key To Describing Acids And Bases

M Tight



Answer Key To Describing Acids And Bases:

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Spencer, George M. Bodner, Lyman H. Rickard, 2010-12-28 **CHEMISTRY** **Cambridge IGCSE Chemistry Study and Revision Guide** David Besser, 2017-03-13 Providing guidance that helps students practice and troubleshoot their exam technique these books send them into their exam with the confidence to aim for the best grades Enables students to avoid common misconceptions and mistakes by highlighting them throughout Builds students skills constructing and writing answers as they progress through a range of practice questions Allows students to mark their own responses and easily identify areas for improvement using the answers in the back of the book Helps students target their revision and focus on important concepts and skills with key objectives at the beginning of every chapter Ensures that students maximise their time in the exam by including examiner's tips and suggestions on how to approach the questions This title has not been through the Cambridge International Examinations endorsement process **AP Chemistry For Dummies** Peter J.

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General, Organic, and Biochemistry Katherine J. Denniston,Joseph J.

Topping,Robert L. Caret,2001

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Office,1887

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web constant strain rates ranging from 10⁻⁵ s to 10⁻¹ s these strain rate dependent stress strain relations are used in the input file and were simulated using fe modelling using abaqus same size of the specimen i e 12.7 mm diameter and 25.4 mm height is modelled in the fe analysis figure 1 shows the fe mesh developed both

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