

Name _____ Date _____



ACIDS AND BASES QUIZ

1. Define the following:

a. Strong acid

b. Weak acid

c. Strong base

d. Weak base

2. Group the following substances as Acidic, Basic, Or Neutral

Lemon juice

Soap

Sour milk

Pure water

Wood ash solution

Common salt solution

Toothpaste

Ammonium solution

Vinegar

Acidic	Basic	Neutral

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3. What is the products of the reaction between a dilute acid with a:

- a. Metal: _____.
- b. Metal hydroxide: _____.
- c. Metal Oxide: _____.
- d. Carbonate: _____.

4. Complete the word equations below to illustrate the properties of acids:

- a. Acid + metal \rightarrow salt + _____.
- b. Acid + bases \rightarrow salt+ _____.
- c. Acid+ metal carbonate \rightarrow salt+ _____ + _____.
- d. Acid + metal hydrogen carbonate \rightarrow salt+ _____ + _____.

5. Complete the following word equations involving the reaction between acids and bases:

I. Magnesium oxide + nitric acid \rightarrow

II. Sodium hydrogen carbonate + sulphuric acid \rightarrow

III. Copper (II) oxide + hydrochloric acid \rightarrow

Ammonium hydroxide + sulphuric acid \rightarrow

IV. Potassium carbonate + sulphuric acid \rightarrow

6. Explain why all alkalis are bases but not all bases are alkalis

7. Acids and bases have several uses.

I. Name the acids used in:

a. Car batteries: _____.

b. Vinegar: _____.

II. Name the bases used in:

a. Antacids: _____.

b. Liming of acids in soils to reduce acidity: _____.