

Name : \_\_\_\_\_ Date : \_\_\_\_\_

# ACIDS AND BASES WORKSHEET

I Fill in the blanks.

1. Acids are \_\_\_\_\_ in taste and \_\_\_\_\_ in nature.
2. The most commonly used natural indicator is \_\_\_\_\_
3. Aqueous solution of baking soda is bitter in taste and feels soapy on touching because it contains a \_\_\_\_\_
4. \_\_\_\_\_ are used to test whether a substance is acidic or basic.
5. Lemon juice, and orange juice taste sour because they contain \_\_\_\_\_

II Choose the correct answer.

1. What color change is observed when phenolphthalein indicator is added to acidic sodium?  
a) pink                      b) green                      c) red                      d) colorless

Answer \_\_\_\_\_

2. Neutralization reaction is a

- a) Physical and reversible change
- b) Physical and irreversible change
- c) Chemical and reversible change
- d) Chemical and irreversible change

Answer \_\_\_\_\_

3. The fact that vinegar has acetic acid in it explains why it tastes

- a) sweet                      b) salty                      c) sour                      d) bitter

Answer \_\_\_\_\_

4. Strong acids neutralize strong bases. A student wants to neutralize a base with a pH value of 13. To do this, he should add an acid with a pH of

- a) 2                      b) 6                      c) 7                      d) 10

Answer \_\_\_\_\_

III Who am I?

1. I am used in the production of disinfectants. \_\_\_\_\_
2. I am a substance that, when added to a solution, indicates whether the substance is acidic or basic. \_\_\_\_\_
3. I am a base used by your mother when she makes cakes for you.  
\_\_\_\_\_

Name : \_\_\_\_\_ Date : \_\_\_\_\_

# ACIDS AND BASES WORKSHEET

## Answers

I Fill in the blanks.

1. Acids are sour in taste and corrosive in nature.
2. The most commonly used natural indicator is litmus paper
3. Aqueous solution of baking soda is bitter in taste and feels soapy on touching because it contains a base
4. Indicators are used to test whether a substance is acidic or basic.
5. Lemon juice, and orange juice taste sour because they contain acid

II Choose the correct answer.

1. What color change is observed when phenolphthalein indicator is added to acidic sodium?  
a) pink                      b) green                      c) red                      d) colorless

Answer a

2. Neutralization reaction is a

- a) Physical and reversible change
- b) Physical and irreversible change
- c) Chemical and reversible change
- d) Chemical and irreversible change

Answer d

3. The fact that vinegar has acetic acid in it explains why it tastes

- a) sweet                      b) salty                      c) sour                      d) bitter

Answer c

4. Strong acids neutralize strong bases. A student wants to neutralize a base with a pH value of 13. To do this, he should add an acid with a pH of

- a) 2                      b) 6                      c) 7                      d) 10

Answer a

III Who am I?

1. I am used in the production of disinfectants. Sodium hydroxide
2. I am a substance that, when added to a solution, indicates whether the substance is acidic or basic. Litmus paper
3. I am a base used by your mother when she makes cakes for you.

Baking soda