



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 By which process is a **precipitate most easily separated** from the liquid in which it is suspended?

- A neutralization
- B distillation
- C condensation
- D filtration

3 After being ignited in a Bunsen burner flame, a piece of **magnesium ribbon burns brightly**, giving off heat and light. In this situation, the Bunsen burner **flame provides**

- A ionization energy
- B activation energy
- C heat of reaction
- D

2 The results of testing a **colorless solution** with **three indicators** are shown in the table.

Which formula could represent the **solution tested**?

Indicator	Result
red litmus	blue
blue litmus	blue
phenolphthalein	pink

- A NaOH(aq)
- B HCl(aq)
- C  $C_6H_{12}O_6(aq)$
- D  $C_{12}H_{22}O_{11}(aq)$

4 When an **equilibrium** exists between the **dissolved and the undissolved solute** in a solution, the solution must be

- A diluted
- B saturated
- C supersaturated

5  
V  
a  
r  
A  
E  
C  
D



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7  
T  
o  
c  
V

of water in the **original sample**?

12.0	8.0
20.0	8.0
30.0	8.0

- A 10%
- B 20%
- C 60%
- D 80%

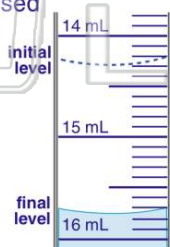
- A is endothermic
- B is exothermic
- C produces an acid solution
- D produces a salt solution



9 The diagram below represents a section of a **buret containing acid** used in an acid-base titration.

What is the **total volume of acid** that was used?

- A 1.10 mL
- B 1.30 mL
- C 1.40 mL
- D 1.45 mL



10 A student **investigated** the physical and chemical properties of a sample of an unknown gas then **identified** the gas. Which **statement represents a conclusion** rather than an experimental observation?

- A The gas is colorless.
- B The gas is carbon dioxide.
- C When the gas is bubbled into limewater, the liquid becomes cloudy.
- D When placed in the gas, a flaming splint stops burning.



## ANSWER KEY

By which process is a **precipitate most easily separated** from the liquid in which it is suspended?

- A neutralization
- B distillation
- C condensation
- D filtration

(d)

The results of testing a **colorless solution** with **three indicators** are shown in the table.

Which formula could represent the **solution tested**?

Indicator	Result
red litmus	blue
blue litmus	blue
phenolphthalein	pink

(a)

- A NaOH(aq)
- B HCl(aq)
- C  $C_6H_{12}O_6(aq)$
- D  $C_{12}H_{22}O_{11}(aq)$

After being ignited in a Bunsen burner flame, a piece of **magnesium ribbon burns brightly**, giving off heat and light. In this situation, the Bunsen burner **flame provides**

- A ionization energy
- B activation energy
- C heat of reaction
- D heat of vaporization

(b)

When an **equilibrium** exists between the **dissolved and the undissolved solute** in a solution, the solution must be

- A diluted
- B saturated
- C supersaturated
- D unsaturated

(b)



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- A 10%
- B 20%
- C 60%
- D 80%

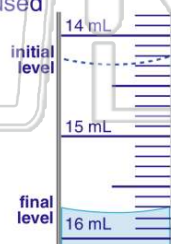
- A is endothermic
- B is exothermic
- C produces an acid solution
- D produces a salt solution



The diagram below represents a section of a **buret containing acid** used in an acid-base titration.

What is the **total volume of acid that was used**?

- A 1.10 mL
- B 1.30 mL
- C 1.40 mL
- D 1.45 mL



(d)

A student **investigated** the physical and chemical properties of a sample of an unknown gas then **identified** the gas. Which statement represents a **conclusion** rather than an experimental observation?

- A The gas is colorless.
- B The gas is carbon dioxide.
- C When the gas is bubbled into limewater, the liquid becomes cloudy.
- D When placed in the gas, a flaming splint stops burning.

(b)