

Explain the following in your own words. (1 point each)

1. What does a **driving force** do?

Cause a reaction to occur

2. What is a **precipitate**?

the solid formed

3. What is a **precipitation reaction**?

a reaction that forms a solid

4. What is **precipitation**?

the act of forming a solid from  
2 aqueous solutions

Name the four driving forces for reactions that we discussed in Chapter 7. (1 point each)

5. Formation of a solid

6. formation of water

7. Transfer of electrons

8. formation of a gas

Answer the following with a word or phrase. (1 point each)

9. What is the **driving** force of a PRECIPITATION reaction?

formation of a solid

10. What is a **STRONG ELECTROLYTE**?

an ionic compound that dissolves completely in  
water producing separate ions

11. What is the underlying reason that causes reactions to occur?

achievement of a more stable, less energy consuming  
state.

Name: Key

Determine the solubility of the following compounds in water. Circle the correct response.

12. AgCl                      SOLUBLE                      INSOLUBLE

13. Na<sub>2</sub>CO<sub>3</sub>                      SOLUBLE                      INSOLUBLE

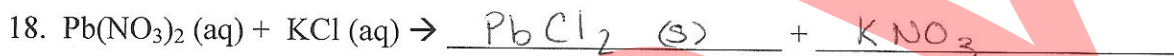
14. BaS                      SOLUBLE                      INSOLUBLE

15. CaCl<sub>2</sub>                      SOLUBLE                      INSOLUBLE

16. Na<sub>2</sub>S                      SOLUBLE                      INSOLUBLE

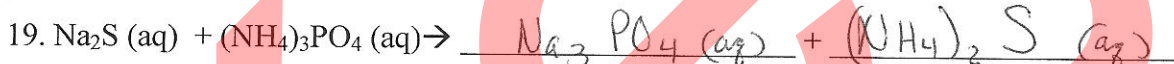
17. BaSO<sub>4</sub>                      SOLUBLE                      INSOLUBLE

**Predict the products, determine and record the solubility of each product, and indicate if the reaction occurs or not by circling the proper choice for the following possible precipitation reactions. (3 points each)**



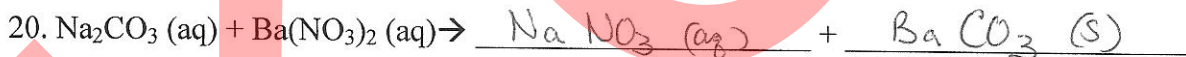
REACTION OCCURS

NO REACTION



REACTION OCCURS

NO REACTION



REACTION OCCURS

NO REACTION



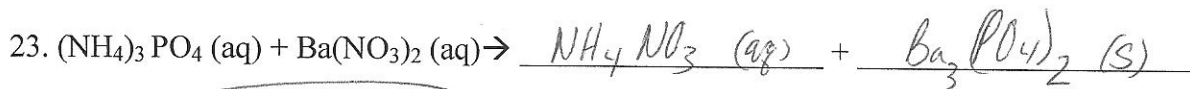
REACTION OCCURS

NO REACTION



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