

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

1. What does a **driving force** do?
2. What is a **precipitate**?
3. What is a **precipitation reaction**?
4. What is **precipitation**?

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

- 5.
- 6.
- 7.
- 8.

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

9. What is the driving force of a PRECIPITATION reaction?
10. What is a STRONG ELECTROLYTE?

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

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



REACTION OCCURS

NO REACTION



REACTION OCCURS

NO REACTION