ANALYSIS

- ANALYZE THE REACTION BETWEEN HYDROCHLORIC ACID AND MAGNESIUM.
- Prepare a flow diagram and write a balanced chemical equation for the reaction between HCl and Mg.
- Explain what a "salt" is, and describe how they look dry and in a solution.
- 2. ANALYZE THE REACTION BETEEN LEAD (II) CHLORIDE AND POTASSIUM IODIDE.
- Prepare a flow diagram and write a balanced chemical equation for the reaction between PbCl₂ and KI.
- Explain why Potassium Chloride is a salt.
- Explain why Lead(II) lodide is a precipitate.
- 3. DETERMINE THE REACTION RATES FOR ALKASELTER AT DIFFERENT TEMPERATURES.
- Calculate the Reaction Rates for the AlkaSeltzer Tablets by dividing the mass of the tablet by the time the reaction took in each case. This will be in grams/second.
- Comment on the factors that influence reaction rate.
- 4. GRAPH REACTION RATE VERSUS TEMPERATURE FOR ALKASELTZER IN WATER.
- Prepare a Reaction Rate vs. Temperature graph for the tablet in room-temperature, hot and ice water.
- Comment on how temperature affects reaction rate.

SYNTHESIS QUESTIONS

- 1. Define the terms reactant, product and precipitate.
- 2. Why is it necessary to balance chemical equations?