Name Date

Period

Grade:

EXPERIMENT 30 MASS-MASS RELATIONSHIPS IN REACTIONS

PRELAB QUESTIONS:

- 1. Give a brief description of a double replacement reaction. What must one of the products be?
- 2. What is another name for a double replacement reaction?
- 3. Define filtrate, precipitate.

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EXPERIMENT 30 MASS-MASS RELATIONSHIPS IN REACTIONS

DATA TABLE: (a) Mass of empty 250 mL beaker	g
(b) Mass of 250 a beaker $+ \operatorname{Zn}(C_2H_3O_2)_2 \bullet 2H_2O$	g
(c) Mass of $Zn(C_2H_3O_2)_2 \bullet 2H_2O$	g
(d) Mass of filter paper	g
(e) Mass of filter paper + precipitate	g
(f) Mass of precipitate	g
(g)Observations:	

CALCULATIONS:

- 1. Write a balanced equation for the double replacement reaction. (The precipitate formed is Zinc Phosphate Hydrate. Its formula is $Zn(PO_4)_2 \bullet 4H_2O$).
- 2. Using mass-mass calculations, fmd the theoretical mass of the $Zn(PO_4)_2 \bullet 4H_2O)$ precipitate that should be produced when 2. 19g of $Zn(C_2H_3O_2)_2 \bullet 2H_2O$ are completely reacted.

g

- 3. Find the experimental mass of Zinc Phosphate hydrate formed (c) (b) g
- 4. Calculate your percent error.
- 5. What are some sources of error in this experiment?

Discussion Conclusion