Chapter 9 BLM 9-4

What To Do

Goal

Precipitation Reaction Predictions

Set A

Using the general solubility guidelines from your text write YES if a precipitate forms and NO if a precipitate does not form.

To practice using solubility guidelines to predict the formation of precipitates.

-	-	,		-	-	
	Ba(NO ₃) ₂	BaCl ₂	Na ₂ CrO ₄	NaNO ₃	K ₂ CrO ₄	Κ <u>Ω</u>
$Ba(NO_3)_2$	20	ح 0	S.3K	Z	X65	S
BaCl ₂	. NO	20	点	<u>Z</u>	YES	3
Na ₂ CrO ₄	<i>YE</i> >	Z 0	Z	3	3	2
NaNO ₃	7	Z	ON	3	3	2
K2CrO4	785	3	Z	3	Z	3
KQ:	2	2	3	3	Z	3

2. Write formulas for the following ionic compounds.

(g) Ni(NO₃)₃

(f) ZnCO₃ (e) HgClO₃

(h) Ba(BrO3)2

(i) BeCO₃

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(d) AgIO₃ (c) (NH₄)₃PO₄ (b) AI(NO₃)₃

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(d) Lead(II) carbonate (c) Aluminum sulfate (b) Mercury(I) iodate (a) Iron(III) chlorate

Pb CO 3 NH 4) 3 PO 4

(SOA)

(e) Ammonium phosphate

	Na ₂ SO ₄	MgCl ₂	Al ₂ (SO ₄) ₃	Ba(NO ₃) ₂	Sr(NO ₃) ₂	AIC ₁₃
Na ₂ SO ₄	NO N	3	Z	3	K	3
MgCl ₂	7	Z O	Z	Z	3	Z
Al ₂ (SO ₄) ₃	7	- 	Z	T	ð	Z
Ba(NO ₃) ₂	75	Z 0	K S	S	C,	Z
Sr(NO ₃) ₂	YES	3	YE5	00	gn	Z
AICI ₃	2	3	3	3	9	energy Care

Polyatomic Ions

BLM 9-2 Reinforcement

Goal

What To Do

Answer each question in the space provided.

1. Name the following compounds containing polyatomic ions.
(a) CtSO4

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To practice naming and writing formulas of polyatomic ions.

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Name:

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(h) Silver fluorate (g) Potassium permanganate (f) Calcium nitrate (J) Sodium chromate (i) Strontium sulfate I S 5 70,0 4 (% OS)

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ANSWERS

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Solution Terminology

Goal	
To practice using solution terminology.	

What To Do Choose the correct term for each blank space from the list at the bottom of the page. 1. The experimental evidence that NaCl in aqueous solution is a(n) tells us that this salt is an electrolyte.

- 2. $Fe^{3+}_{(4q)} + 3Cl^{-}_{(4q)} + 3N_a^{+}_{(4q)} + 3OH^{-}_{(4q)} \rightarrow Fe(OH)_{3(i)} + 3N_a^{+}_{(4q)} + 3Cl^{-}_{(4q)}$ is an example of a(n) 1001c equation
- 3. In the preceding question, the ions which do not participate in the reaction are called Specturb ions. 4. Since potassium chloride is a(n) 50 + it exists in
- 5. Flame tests can be used to identify many . metallic water solution almost completely as ions. ions
- 6. Spectator ions are not included in a(n) net 10010 equations will dissolve in 100 mL of water at room temperature. generally means that more than 1 g of solute
- 8. The bond between small ions is 5 Tronged than the bond
- between large ions with the same charge.

 9. Fluoride ions are 1955 50 WD/C than chlorides, bromides and
- iodides because the fluoride ion is smaller.

 10. The appearance of a precipitate compound is present. indicates that an insoluble
- to soluble means that the solubility is less than 0.1 g per
- 100 mL water.

 12. Double displacement reactions can be recognized by the formation of a precipitate, gas or water.

 precipitate	-Henricette	ionic equation	conductor	
-	stronger	merallic	-double-displacement	
spectator	less soluble	soluble	net tonic equation	

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