Review Sheet

Part A: Balance the following reactions and indicate whether they are synthesis or decomposition reactions.

- 1. SO_3 H₂SO₄
- 2. H_2O H_2 O_2 3. HgO
- Hg O_2 4. $Al_2O_3(s)$ Al(s) + $O_2(g)$
- 5. O_2 P_2O_5
- Type: Type:
- Type:
- Type: Type:

Part B: Predict the products and indicate type (include states):

1. KBr --->

Type: _____

2. Li + Cl₂ --->

Type: _____

3. Rb₂CO₃ --->

Туре: _____

4. NiO --->

Type: _____

5. $CO_2 + H_2O --->$

Type: _____

Part C: Predict the products, balance, include states, and indicate type.

- 1. Molten sodium is reacted with chlorine gas
- Type: _____

- **2.** Calcium is added to water
- (think of water as HOH)
- Type:
- 3. Aluminum chloride decomposes into its elements Type:

- 4. Potassium and Bromine are reacted
- **Type:** _____

5.	Iodine	reacts	with	hydroge	'n
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Type:	
I V DC.	
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Part D:

Write the molecular equation, the complete ionic equation, and the net ionic equation for each reaction.

1. Aqueous lithium phosphate reacts with aqueous calcium chloride

2. Aqueous potassium chloride reacts with aqueous lead II chlorate

3. Aqueous manganese II nitrate reacts with aqueous sodium sulfide.