ANSWER KEY Recipes for Chemical Change Quiz on Reaction Types and on Predicting Products

For the following, indicate the type of reaction occurring (Synthesis, Decomposition, Single Replacement, Double Displacement, or Combustion). Predict what the products will be. Then complete and balance the equations.

ТҮРЕ			WRITE PRODUCTS & BALANCE EQUATION				
1.	<u>Decomposition</u>		<mark>2</mark> NI ₃ (g)	-> N ₂	2 (g)	+	3 I ₂
2.	Double Displacement MgCO ₃ (s) +	2 NaBr (aq)	Na ₂ CO ₃ (aq)	+	MgBr ₂	(aq)	->
3.	<u>Synthesis</u>		4Al(s) 2 Al ₂ Cl ₃ (s)	+	<mark>3</mark> Cl₂ (g	g)	->
4.	<u>Synthesis</u>	Ba ₃ N ₂ (s)	<mark>3</mark> Ba (s)	+	N ₂ (g)		->
5.	Combustion 22 CO ₂ (g) +	18 H ₂ O (g)	2C ₁₁ H ₁₈ (I)	+	31 O ₂ (g)	->
6.	<u>Synthesis</u> -> 2 NaOH (aq))	Na ₂ O(s)	+	H ₂ O (I)		