Assignment Week #: 1 Procedure: You are going to use particle pictures to model the types of reactions. Use a different color circle or a different shape to represent each element in each of the following reactions. Begin by balancing the equation and determining what type of reaction it is. Then illustrate the balanced reaction, drawing particle pictures of the compounds. The first problem's illustration is done for you.					
Reaction types to choose from: Combustion ■ Decomposition					
Synthesis ■ Single replacement ■ Double replacement					
Reaction:Fe _(s) +Cl _{2(g)} \rightarrow FeCl _{3(s)}					
Type of reaction:					
Reaction illustrated:					
Reaction: $\underline{\hspace{1cm}} H_{2(g)} + \underline{\hspace{1cm}} O_{2(g)} \rightarrow \underline{\hspace{1cm}} H_2O_{(g)}$					
Type of reaction:					
Reaction illustrated:					
Reaction:Li _(s) +H ₂ O _(l) \rightarrow LiOH _(aq) +H ₂ (g)					
Type of reaction:					
Reaction illustrated:					

Student Name: Teacher Name:

Period:

Class Name/Subject: Chemistry

Reaction:	$NH_4NO_{3(s)} \rightarrow $	N ₂ O _(g) +	$_{\rm H_2O_{(g)}}$	
Type of reacti	on:			
Reaction illus	trated:			
Reaction:	_Sr(CN) _{2(aq)} + _	HBr _(aq) →	$_SrBr_{2(aq)}+$	_HCN _(g)
Type of reacti	on:			
Reaction illus	trated:			
Reaction:	_C ₂ H _{4(g)} +	$O_{2(g)} \rightarrow \underline{\hspace{1cm}} CO_{2(g)}$	$_{2(g)}+$ $H_{2}O_{(g)}$	
Type of reacti	on:			
Reaction illus	trated:			
Reaction:	_LiBr _(aq) +	$AgNO_{3 (aq)} \rightarrow $	LiNO _{3(aq)} +	$\AgBr_{(s)}$
Type of reacti	on:			
Reaction illus	trated:			