SYNTHESIS AND DECOMPOSITION WORKSHEET

NAM	TE DATE	
1) Ide	entify each reaction as synthesis or decomposition and 2) write a balanced cheminion for each reaction.	cal
•	Phosphorous + oxygen → tetraphosphorous decaoxide	
	Iron(III) hydroxide → iron(III) oxide + water	
	Ammonia + sulfuric acid → ammonium sulfate	
	Carbon monoxide + oxygen → carbon dioxide	
	Potassium + chlorine → potassium chloride	
	Manganese (II) sulfate heptahydrate → manganese (II) sulfate + water	
	Sodium nitrate → sodium nitrite + oxygen	
	Potassium chloride → potassium chloride + oxygen	
2)	a- What is the difference between synthesis and decomposition?	
	b- How can an exothermic synthesis reaction become a decomposition reaction?	
	c- What traits to synthesis and decomposition share?	