

Synthesis/Decomp Balancing Handout name _____

Write a skeleton reaction, and then balance each of these chemical reactions. In the right column, state if each one is a synthesis reaction or a decomposition reaction by writing a nice big “S” or “D” 15 points total.

#	Word and balanced equation	S or D
1	Sodium and bromine form into sodium bromide	
2	Indium and chlorine form into indium chloride	
3	Cobalt (II) phosphide decomposes.	
4	Iron and oxygen form into Iron (III) oxide	
5	Water decomposes	
6	Gold and sulfur form into gold (III) sulfide	
7	Potassium and arsenic form potassium arsenide	

	Synthesis/Decomp Balancing Practice page 2	S or D
8	Nitrogen and hydrogen form ammonia	
9	Aluminum oxide forms into aluminum and oxygen	
10	Nitrogen dioxide forms nitrogen and oxygen	
11	Titanium and chlorine form titanium (III) chloride	
12	Palladium (IV) nitride decomposes	
14	Silver and iodine form silver iodide	
15	Bismuth and bromine form bismuth (V) bromide	
16	Strontium and fluorine form strontium fluoride	