

Reactions HW #1 - Synthesis and Decomposition Reactions NAME: \_\_\_\_\_

Write out the word equations for these seven reactions, **including phases**, then indicate if they are **S**ynthesis or **D**ecomposition reactions in the last column.

#	write balanced chemical reaction or word equation	synth or decomp?
1	$2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$	
2	$\text{Fe}_2\text{S}_3 \rightarrow 2\text{Fe} + 3\text{S}$	
3	$\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2$	
4	copper I sulfide powder decomposes into copper and sulfur	
5	beryllium combines with oxygen to form beryllium oxide	
6	magnesium reacts with nitrogen to form magnesium nitride	
7	calcium carbonate breaks down to calcium oxide & carbon dioxide	
8	$\text{N}_2 + \text{O}_2 \rightarrow 2\text{NO}$	