Activity Series of Metals in Aqueous Solutions

The following ordered list shows relative activities of metals and nonmetals in aqueous single displacement reactions. An element can displace any element below itself, but cannot displace an element above itself.

Metals			
Element		Reactivity	
lithium rubidium potassium sodium	Li Rb K Na	Reacts with cold H_2O and acids, replacing hydrogen. Reacts with O_2 forming oxides.	
strontium barium calcium	Sr Ba Ca	Reacts with hot H_2O (not cold H_2O) and acids, replacing hydrogen. Reacts with O_2 forming oxides.	
magnesium aluminum manganese zinc chromium iron cadmium	Mg Al Mn Zn Cr Fe Cd	Reacts with steam (not cold H_2O) and acids, replacing hydrogen. Reacts with O_2 forming oxides.	
cobalt nickel tin lead	Co Ni Sn Pb	Does not react with H_2O . Reacts with acids, replacing hydrogen. Reacts with O_2 , forming oxides.	
hydrogen	Н	Reacts with O_2 , forming oxides.	
antimony bismuth arsenic copper mercury	Sb Bi As Cu Hg	Reacts with O_2 , forming oxides.	
silver platinum gold	Ag Pt Au	Fairly unreactive, forming oxides only indirectly.	

Non-Metals		
F	fluorine	
Cl	chlorine	
Br	bromine	
I	iodine	
S	sulfur	