

ACTIVITY SERIES OF METALS IN AQUEOUS SOLUTIONS

most active (easily oxidized - readily lose electrons)

lithium potassium barium calcium sodium	Li K Ba Ca Na	These metals displace hydrogen from water: $\text{Ca}_{(s)} + 2\text{H}_2\text{O}_{(l)} \rightarrow \text{Ca}(\text{OH})_2 + \text{H}_{2(g)}$ These elements are very reactive and react readily to form compounds
magnesium aluminium zinc chromium iron cadmium nickel tin lead	Mg Al Zn Cr Fe Cd Ni Sn Pb	These metals displace hydrogen from acids: $\text{Zn}_{(s)} + \text{HCl}_{(aq)} \rightarrow \text{ZnCl}_2 + \text{H}_{2(g)}$
hydrogen	H	
copper silver mercury platinum gold	Cu Ag Hg Pt Au	These metals do not displace hydrogen from acids or water. These elements are more stable, and form compounds less readily than do those found higher in the table.

least active