

If a salt is dissolved in water then there are more than just two ions as water contains the ions H^+ and OH^- .

At the **negative electrode**, if the metal is more reactive than H^+ it will stay in solution, if not H_2 will form.

At the **positive** electrode, the group 7 element will always form. If there is no group 7 element present then oxygen will form (from the OH⁻ ions).



Electrolysis is used to coat the surface of a metal with another metal, eg. plating (cheap) brass with silver (expensive).





Brass is made negative to attract the positive silver ions.