

## Displacement Reaction Questions

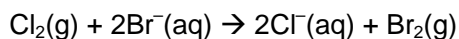
1 When chlorine gas is bubbled through a solution of potassium iodide a grey precipitate of iodine is produced.

(a) Write the ionic half equations for chlorine and iodide. Include state symbols.

(b) Identify the species being oxidized and those being reduced.

(c) Combine the half equations to produce the overall equation for the reaction.

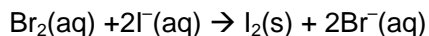
2 When chlorine gas is bubbled through a solution of potassium bromide the chlorine displaces bromine from the salt.



(a) Write the two ionic half equations for the reaction.

(b) Identify the species being oxidized and those being reduced.

3 When bromine gas is bubbled through a solution of potassium iodide, potassium bromide and iodine are produced.



(a) What would you see?

(b) Write the two ionic half equations for the reaction.

(c) Identify the species being oxidized and those being reduced.