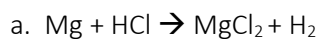


1. Consider the unbalanced equations of several redox reactions shown below. A redox reaction is composed of two different types reactions taking place simultaneously., the oxidation and the reduction reactions. For each redox reaction below identify the :

- atom oxidized,
- atom reduced,
- oxidizing agent (Oxidant),
- reducing agent (Reductant),
- oxidation half reaction,
- reduction half reaction,

The first is done for you.



- atom oxidized = Mg from 0 to +2
- atom reduced = H from +1 to 0
- oxidizing agent = HCl metal
- reducing agent = Mg metal
- oxidation half reaction = $\text{Mg} \rightarrow \text{Mg}^{2+} + 2e^-$
- reduction half reaction = $2\text{H}^+ + 2e^- \rightarrow \text{H}_2$
- overall balanced equation = $\text{Mg} + 2\text{H}^+ \rightarrow \text{Mg}^{2+} + \text{H}_2$

