

Oxidation and Reduction

Pre-lesson assignment p.48-51

Define the following terms.

- Reduction
- Oxidation
- Oxidation number
- Redox reaction

Make notes on oxidation and reduction

1. Give the oxidation number of
 - a. Any pure element
 - b. Any ion
 - c. O, F, and H when in a covalent compound, including special cases.
2. Show how the oxidation number is calculated for
 - a. S in H_2SO_4
 - b. N in NO_3^-
3. Show how roman numerals can be used to name polyatomic anions.
4. Show that in the reaction of zinc and hydrochloric acid, zinc is oxidised and hydrogen is reduced using
 - a. Oxidation numbers
 - b. Gain/loss of electrons.