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## Redox reaction examples with answers

Determine the number of oxidation of the elements in each of the following compounds: a.  $\text{H}_2\text{CO}_3$  H: +1, or: -2, C: +4 b.  $\text{N}_2$  N: 0 c.  $\text{ZN}(\text{OH})_2$  ZN: 2+, H: +1, or: -2 d.  $\text{No}_2$  N: 3, or: -2 e.  $\text{LiH}$  Li: +1, H: -1 f.  $\text{FE}_3\text{O}_4$  FE: +8/3, or: -2 Identify species are oxidized and reduced in each of the following reactions: a.  $\text{CR} + + + \text{SN}_4$   $\text{CR}_3 + + \text{SN}_2 + \text{CR} +$ : oxidized,  $\text{SN}_4 +$ : B reduced. 3  $\text{HG}_2 + + 2 \text{FE}(\text{s})_3 + 2 \text{HG}_2$   $\text{FE}_3 + \text{HG}_2 +$ : Reduced, FE: oxidized c. 2  $\text{AS}(\text{s}) + 3 \text{CL}_2(\text{G})$  2  $\text{ASCL}_3$  As: oxidized,  $\text{CL}_2$ : Reduced would you use an oxidizing or reducing agent so that the following reactions occur? a.  $\text{ClO}_3 - \text{ClO}_2$   $\text{A}, \text{a}$ , reducing agent b.  $\text{SO}_4^{2-} - \text{S}_2 - \text{A}, \text{A}$ , reducing agent c.  $\text{Mn}^{2+} + \text{mno}_2$   $\text{A}, \text{a}$ , oxidizing agent d.  $\text{ZN} \text{ZNCL}_2$   $\text{A}, \text{A}$ , oxidizing agent writing balanced equations for the following REDOX reactions: a.  $2 \text{Nabr} + \text{CL}_2$  2  $\text{NACL} + \text{BR}_2$  b.  $\text{FE}_2\text{O}_3 + 3 \text{CO}$  2  $\text{FE} + 3 \text{CO}_2$  in acid solution c.  $5 \text{Co} + \text{I}_2\text{O}_5$  5  $\text{CO}_2 + \text{I}_2$  In writing solution Balanced basic equations for the following reactions: a.  $\text{CR}(\text{OH})_3 + \text{BR}_2$   $\text{CRO}_4^{2-} + \text{BR}^-$  Basic solution 10  $\text{Oh}^- + 2 \text{CR}(\text{OH})_3 + 3 \text{BR}_2$  2  $\text{CRO}_4^{2-} + 8 + \text{H}_2\text{O}$  6  $\text{BR}^-$  b.  $\text{O}_2 + \text{SB}$   $\text{H}_2\text{O}_2 + \text{SBO}_2$ - in base solution 2  $\text{OH}^- + 2 \text{SB} + 3 \text{O}_2 + 2 \text{H}_2\text{O}$  2  $\text{SBO}_2^- + 3 \text{H}_2\text{O}_2$  c.  $\text{HCOOH} + \text{MNO}_4^-$   $\text{CO}_2 + \text{MN}_2 + \text{IN ACIDE SOLUTION}$  6  $\text{H}^+ + 2 + 5 \text{MNO}_4^-$   $\text{HCOOH}$  2  $\text{MN}_2 + 8 + \text{H}_2\text{O}$  5  $\text{CO}_2$  d.  $\text{ClO}_2^-$   $\text{ClO}_2^- + \text{Cl}^-$ - sour solution 5  $\text{ClO}_2^- + 4 \text{H}^+ + 4 \text{ClO}_2^- + \text{Cl}^- + 2 \text{H}_2\text{O}$  Evaluates balanced reactions half of the following reactions: a.  $\text{Ni}_2 + 2 \text{h}_2\text{o} + \text{fe} \text{ni}(\text{oh})_2 + \text{fe}(\text{oh})_2$  in basic solution 2  $\text{h}_2\text{o} + \text{niO}_2 + 2 \text{umber}(\text{oh})_2 + 2 \text{oh}^-$   $\text{oh}^-$  2 +  $\text{fe} \text{fe}(\text{oh})_2 + 2 \text{e}^-$  - B.  $\text{CO}_2 + 2 \text{NH}_2\text{OH}$   $\text{CO} + \text{N}_2 + 3 \text{H}_2\text{O}$  in  $\text{CO}_2$  Basic solution +  $\text{H}_2\text{O} + 2 \text{E-CO} + 2 \text{OH}^-$   $\text{OH}^-$  2 + 2  $\text{NH}_2\text{OH}$   $\text{N}_2 + 2 \text{E}^- + 4 \text{H}_2\text{O}$  C. 2  $\text{H}^+ + \text{H}_2\text{O}_2 + 2 \text{FE}_2 + 2 \text{FE}_3 + + 2 \text{H}_2\text{O}$  in acid solution  $\text{H}_2\text{O}_2 + 2 \text{E}^- + 2 \text{H}^+ + 2 \text{H}_2$  or  $\text{FE}_2 + \text{FE}_3 + + \text{E-D}$ .  $\text{H}^+ + 2 \text{H}_2\text{O} + 2 + 5 \text{MNO}_4^-$   $\text{SO}_2$  2  $\text{MN}_2 + + 5 \text{hSO}_4^-$  in acid solution 8  $\text{h}^+ + + 5 \text{MNO}_4^-$   $\text{E- MN}_2 + + 4 \text{H}_2\text{O}$   $\text{SO}_2 + 2 \text{H}_2\text{O}$   $\text{HSO}_4^- + 3 \text{H}^+ + 2 \text{E}^-$  - oxidation and oxidation reduction - reduction oxidation reactions The term was originally used to describe reactions in which an element combines with oxygen. Example: the reaction between magnesium metal and oxygen to form magnesium oxide involves magnesium oxidation. The reduction of the term comes from the latin stem meaning "to drive back". All that returns to the magnesium metal then implies the reduction. The reaction between magnesium and carbon oxide to 2000c to form metallic magnesium and carbon monoxide is an example of magnesium magnesium oxide reduction. After the electrons have been discovered, the chemists became convinced that oxidation reduction reactions involved the transfer of electrons from one atom to another. From this perspective, the reaction between magnesium and oxygen is written as follows.  $2 \text{mg} + \text{O}_2$  2  $[\text{MG}_2 + ] [\text{O}_2^-]$  During this reaction, each magnesium atom loses two electrons to form an ion  $\text{MG}_2 +$ .  $\text{MG} \text{MG}_2 + + 2 \text{E}^-$  and, each  $\text{O}_2$  molecule earns four electrons to form a couple of  $\text{o}_2\text{s}$ .  $\text{O}_2 + 4 \text{E}^-$  2  $\text{O}_2^-$ . Become the electrons are not created nor-created nor destroyed in a chemical reaction, oxidation and reduction are connected. It is impossible to have one without the other, as shown in the figure below. The role of oxidation numbers in oxidation reduction reactions that chemists eventually extended the idea of oxidation and reduction of reactions that do not formally carry out the transfer of electrons. Consider the following reaction.  $\text{CO}(\text{G}) + \text{H}_2\text{O}(\text{G})$   $\text{CO}_2(\text{G}) + \text{H}_2(\text{G})$  How can be seen in the figure below, the total number of electrons in the valence shell of each atom remains constant in this reaction. What changes in this reaction is the status of oxidation of these atoms. The carbon oxidation status increases by +2 to +4, while the oxidation state of hydrogen decreases by +1 to 0. oxidation and reduction are therefore better defined as Oxidation occurs when the number of oxidation of an atom becomes larger. The reduction occurs when the number of oxidation of an atom becomes smaller. The oxidation numbers against the real ion charge The ionic and covalent terms describe the extremes of a bonding continuum. LA LA Some covalent character in even the most ionic compounds and vice versa. It is useful to think of the compounds of the main metals of the group as if they contained positive and negative ions. The chemistry of magnesium oxide, for example, is easy to understand if we assume that the MGO contains  $\text{MG}_2 +$  and  $\text{O}_2$ -ions. But no compound is 100% ionic. There are experimental evidence, for example, that the real charge on magnesium and oxygen atoms in MGO is +1.5 and -1.5. The oxidation states provide a compromise between a powerful model of oxidation reduction reactions based on the intake that these compounds contain ions and our knowledge that the true charge on the ions in these compounds is not as big as this model provides. By definition, the status of oxidation of an atom is the charge that Atom would have brought if the mixture was purely ionic. For active metals in a  $\text{e}^-$   $\text{AL}^+$  FE PRACTICE Problem 4: Use the following equations to determine the relative strengths of sodium, magnesium, aluminum and calcium metal as reducing agents.  $2 \text{NA} + \text{MGCL}_2$  2  $\text{NACL} + \text{MG AL} + \text{MGBR}_2$   $\text{CA} + \text{MG}_2 \text{CAI}_2 + \text{MG CA} + 2 \text{NACL}$  Click here to check the response to practice Problem 4 4 redox reaction examples with answers pdf. redox reaction examples with answers class 10. what is an example of a redox reaction in daily life



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