

# Redox Exercise (Part 2)

## Chapter 20 Worksheet: Redox ANSWERS

1. Determine what is oxidized and what is reduced in each reaction. Identify the oxidizing agent and the reducing agent, also.

- $2\text{Sr} + \text{O}_2 \longrightarrow 2\text{SrO}$   $\text{Sr}^0$  to  $\text{Sr}^{2+}$ ; oxidized/reducing agent  $\text{O}^0$  to  $\text{O}^{2-}$ ; reduced/ox. ag.
- $2\text{Li} + \text{S} \longrightarrow \text{Li}_2\text{S}$   $\text{Li}^0$  to  $\text{Li}^{+}$ ; oxidized/red. ag.  $\text{S}^0$  to  $\text{S}^{2-}$ ; reduced/ox. ag.
- $2\text{Cs} + \text{Br}_2 \longrightarrow 2\text{CsBr}$   $\text{Cs}^0$  to  $\text{Cs}^{+}$ ; oxidized/red. ag.  $\text{Br}^0$  to  $\text{Br}^{-}$ ; reduced/ox. ag.
- $3\text{Mg} + \text{N}_2 \longrightarrow \text{Mg}_3\text{N}_2$   $\text{Mg}^0$  to  $\text{Mg}^{2+}$ ; oxidized/red. ag.  $\text{N}^0$  to  $\text{N}^{3-}$ ; reduced/ox. ag.
- $4\text{Fe} + 3\text{O}_2 \longrightarrow 2\text{Fe}_2\text{O}_3$   $\text{Fe}^0$  to  $\text{Fe}^{3+}$ ; oxidized/red. ag.  $\text{O}^0$  to  $\text{O}^{2-}$ ; reduced/ox. ag.
- $\text{Cl}_2 + 2\text{NaBr} \longrightarrow 2\text{NaCl} + \text{Br}_2$   $\text{Cl}^0$  to  $\text{Cl}^{-}$ ; reduced/ox. ag.  $\text{Br}^{-}$  to  $\text{Br}^0$ ; oxidized/red. ag.
- $\text{Si} + 2\text{F}_2 \longrightarrow \text{SiF}_4$   $\text{Si}^0$  to  $\text{Si}^{4+}$ ; oxidized/red. ag.  $\text{F}^0$  to  $\text{F}^{-}$ ; reduced/ox. ag.
- $\text{Mg} + 2\text{HCl} \longrightarrow \text{MgCl}_2 + \text{H}_2$   $\text{Mg}^0$  to  $\text{Mg}^{2+}$ ; oxidized/red. ag.  $\text{H}^{+}$  to  $\text{H}^0$ ; reduced/o.a.
- $2\text{Na} + 2\text{H}_2\text{O} \longrightarrow 2\text{NaOH} + \text{H}_2$   $\text{Na}^0$  to  $\text{Na}^{+}$ ; oxidized/r.a.  $\text{H}^{+}$  to  $\text{H}^0$ ; reduced/o.a.

11. Give the oxidation number of each kind of atom or ion.

- |            |       |                    |                     |                     |            |             |
|------------|-------|--------------------|---------------------|---------------------|------------|-------------|
| a. sulfate | b. Sn | c. $\text{S}^{2-}$ | d. $\text{Fe}^{3+}$ | e. $\text{Sn}^{4+}$ | f. nitrate | g. ammonium |
| 2-         | 0     | 2-                 | 3+                  | 4+                  | 1-         | 1+          |

12. Calculate the oxidation number of chromium in each of the following.

- |                            |                                       |                    |             |               |
|----------------------------|---------------------------------------|--------------------|-------------|---------------|
| a. $\text{Cr}_2\text{O}_3$ | b. $\text{Na}_2\text{Cr}_2\text{O}_7$ | c. $\text{CrSO}_4$ | d. chromate | e. dichromate |
| 3+                         | 6+                                    | 2+                 | 6+          | 6+            |

13. Use the changes in oxidation numbers to determine which elements are oxidized and which are reduced in these reactions. (Note: it is not necessary to use balanced equations)

- $\text{C} + \text{H}_2\text{SO}_4 \longrightarrow \text{CO}_2 + \text{SO}_2 + \text{H}_2\text{O}$   $\text{C}^0$  to  $\text{C}^{4+}$ ; oxidized  $\text{S}^{6+}$  to  $\text{S}^{4+}$ ; reduced
- $\text{HNO}_3 + \text{HI} \longrightarrow \text{NO} + \text{I}_2 + \text{H}_2\text{O}$   $\text{N}^{5+}$  to  $\text{N}^{2+}$ ; reduced  $\text{I}^{-}$  to  $\text{I}^0$ ; oxidized
- $\text{KMnO}_4 + \text{HCl} \longrightarrow \text{MnCl}_2 + \text{Cl}_2 + \text{H}_2\text{O} + \text{KCl}$   $\text{Mn}^{7+}$  to  $\text{Mn}^{2+}$ ; reduced  $\text{Cl}^{-}$  to  $\text{Cl}^0$ ; oxidized
- $\text{Sb} + \text{HNO}_3 \longrightarrow \text{Sb}_2\text{O}_3 + \text{NO} + \text{H}_2\text{O}$   $\text{Sb}^0$  to  $\text{Sb}^{3+}$ ; oxidized  $\text{N}^{5+}$  to  $\text{N}^{2+}$ ; red.

14. For each reaction in problem 13, identify the oxidizing agent and reducing agent.

- |                               |                          |
|-------------------------------|--------------------------|
| a. oxidizing agent: sulfur    | reducing agent: carbon   |
| b. oxidizing agent: nitrogen  | reducing agent: iodine   |
| c. oxidizing agent: manganese | reducing agent: chloride |
| d. oxidizing agent: nitrogen  | reducing agent: antimony |

# Homework Oxidation And Reduction Answer Key

**WJ Hussar**



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