

Here are all the redox problems. Combustion problems and those that have polyatomic ions we are unfamiliar with have been eliminated. You are expected to understand any problem that is not asterisked.

<u>Problem</u>	<u>Oxidized</u>	<u>Reduced</u>
1	H: 0 \rightarrow +1	O: 0 \rightarrow -2
2	S: 0 \rightarrow +6	O: 0 \rightarrow -2
3	O: -2 \rightarrow 0	Hg: +2 \rightarrow 0
4	Zn: 0 \rightarrow +2	H: +1 \rightarrow 0
5	Na: 0 \rightarrow +1	H: +1 \rightarrow 0
7*	hydride	
8	Fe: 0 \rightarrow +3	O: 0 \rightarrow -2
10	S: -2 \rightarrow +4	Fe: +4 \rightarrow +3 O: 0 \rightarrow -2
11	H: 0 \rightarrow +1	Fe: +3 \rightarrow 0
12	K: 0 \rightarrow +1	Br: 0 \rightarrow -1
14	O: -1 \rightarrow 0	O: -1 \rightarrow -2
17	O: -2 \rightarrow 0	Cl: +5 \rightarrow -1
18	Cl: +5 \rightarrow +7	Cl: +5 \rightarrow -1
20	Sb: 0 \rightarrow +3	O: 0 \rightarrow -2
22	C: +2 \rightarrow +4	Fe: +3 \rightarrow 0
24	S: -2 \rightarrow 0	Cl: 0 \rightarrow -1
25	Fe: 0 \rightarrow $2\frac{2}{3}$	H: +1 \rightarrow 0
26	H: 0 \rightarrow +1	N: 0 \rightarrow -3
27	N: 0 \rightarrow +1	O: 0 \rightarrow -2
34	I: -1 \rightarrow 0	S: +6 \rightarrow -2
35	Al: 0 \rightarrow +3	Fe: +2 \rightarrow 0
37	P: 0 \rightarrow +5	O: 0 \rightarrow -2

39	Al: 0 \rightarrow +3	O: 0 \rightarrow -2
40*	peroxide	
41	C: 0 \rightarrow +2	H: +1 \rightarrow 0
47	Al: 0 \rightarrow +3	H: +1 \rightarrow 0
49	Mg: 0 \rightarrow +2	N: 0 \rightarrow -3
50	Cl: 0 \rightarrow +1	Cl: 0 \rightarrow -1
54	O: -2 \rightarrow 0	N: +5 \rightarrow +4
56	Ca: 0 \rightarrow +2	Al: +3 \rightarrow 0
57	N: -3 \rightarrow 0	N: +2 \rightarrow 0
58	P: +3 \rightarrow +5	P: +3 \rightarrow -3
59	C: 0 \rightarrow +2	Fe: +3 \rightarrow 0
60	S: -2 \rightarrow +4 Fe: +2 \rightarrow +3	O: 0 \rightarrow -2
61	N: -3 \rightarrow +2	O: 0 \rightarrow -2
62	Si: 0 \rightarrow +4	S: 0 \rightarrow -2
63	Hg: +1 \rightarrow +2	Hg: +1 \rightarrow 0
64	C: -4 \rightarrow 0	Cl: 0 \rightarrow -1
68	H: 0 \rightarrow +1	Au: +3 \rightarrow 0
69	Cl: +4 \rightarrow +5	Cl: +4 \rightarrow +3
70*	superoxide	
72	Cl: -1 \rightarrow 0	Mn: +4 \rightarrow +2
73*	organic	
75	Zn: 0 \rightarrow +2	H: +1 \rightarrow 0
78	C: 0 \rightarrow +2	P: +5 \rightarrow 0
79	O: -2 \rightarrow 0 I: +4.5 \rightarrow +6	I: +4.5 \rightarrow 0
80	C: -1 \rightarrow +4	O: 0 \rightarrow -2

81	O: $-2 \rightarrow 0$	Cr: $+6 \rightarrow +3$
82	Al: $0 \rightarrow +3$	H: $+1 \rightarrow 0$
84	Al: $0 \rightarrow +3$ N: $-3 \rightarrow +2$	Cl: $+7 \rightarrow -1$
93	O: $-2 \rightarrow 0$	Cl: $+5 \rightarrow -1$
95	Xe: $0 \rightarrow +6$	F: $0 \rightarrow -1$
96	N: $-3 \rightarrow +1$	N: $+5 \rightarrow +1$
97	O: $-2 \rightarrow 0$	Au: $+3 \rightarrow 0$
99	H: $0 \rightarrow +1$	Fe: $2\frac{2}{3} \rightarrow 0$
101	I: $0 \rightarrow +5$	N: $+5 \rightarrow +4$ H: $+1 \rightarrow 0$
106	N: $-3 \rightarrow 0$	Cr: $+6 \rightarrow +3$
108	C: $+3 \rightarrow +4$	Fe: $+3 \rightarrow +2$
110	As: $0 \rightarrow +3$	H: $+1 \rightarrow 0$