

Name: Alton Aguilera

Excellent!

Date: 2/11/14

Chemistry ~ Ms. Hart

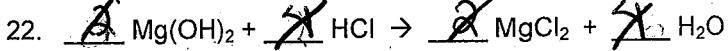
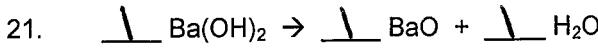
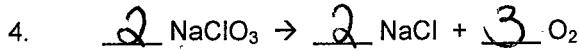
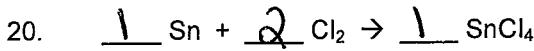
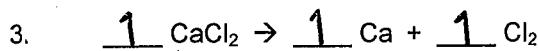
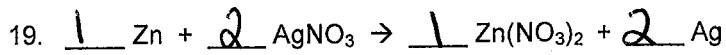
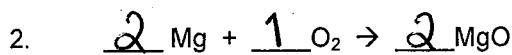
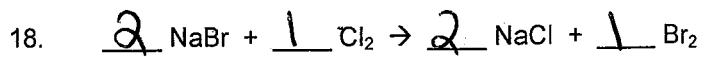
Class:

Anions or Cations

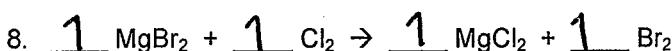
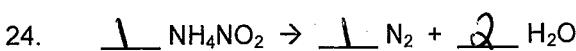
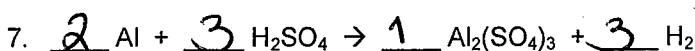
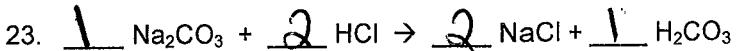
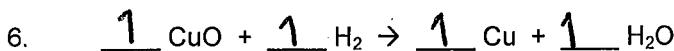
URBAN
ASSEMBLY
SCHOOL
FOR CRIMINAL
JUSTICE

6.5 Balancing Equations

Directions: balance each of the equations below. Use a sheet of loose leaf if you need more space.

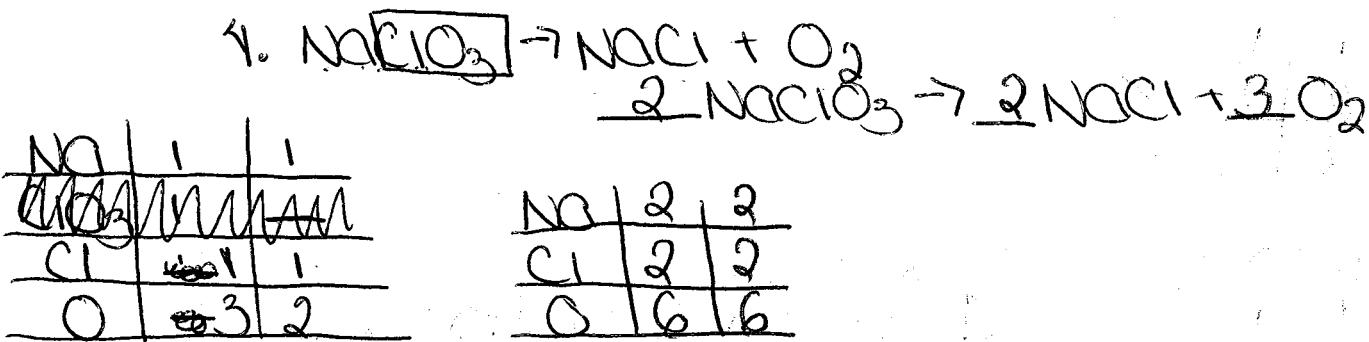
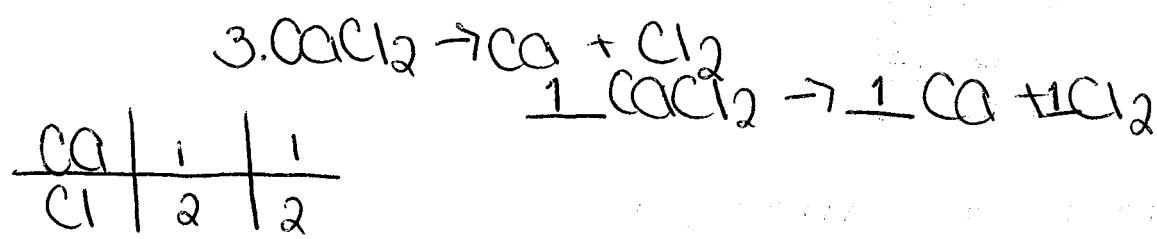
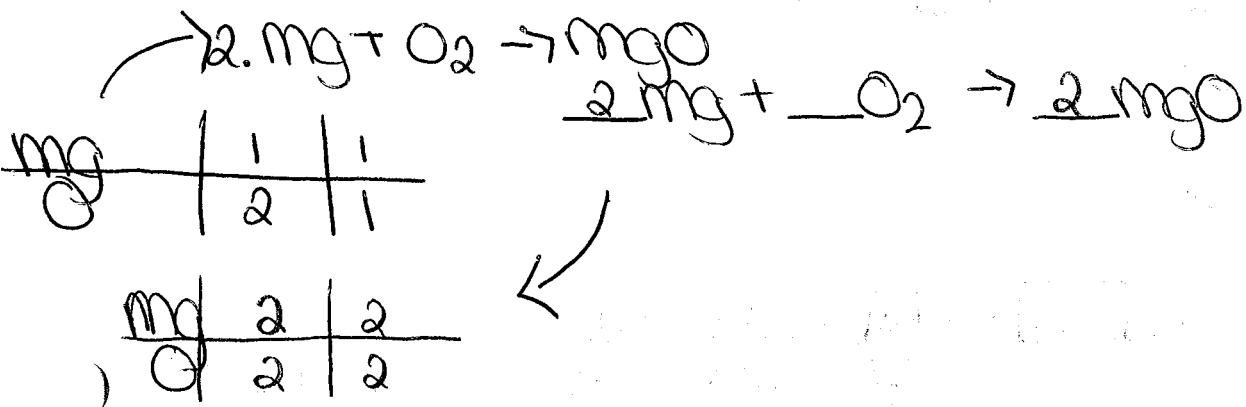
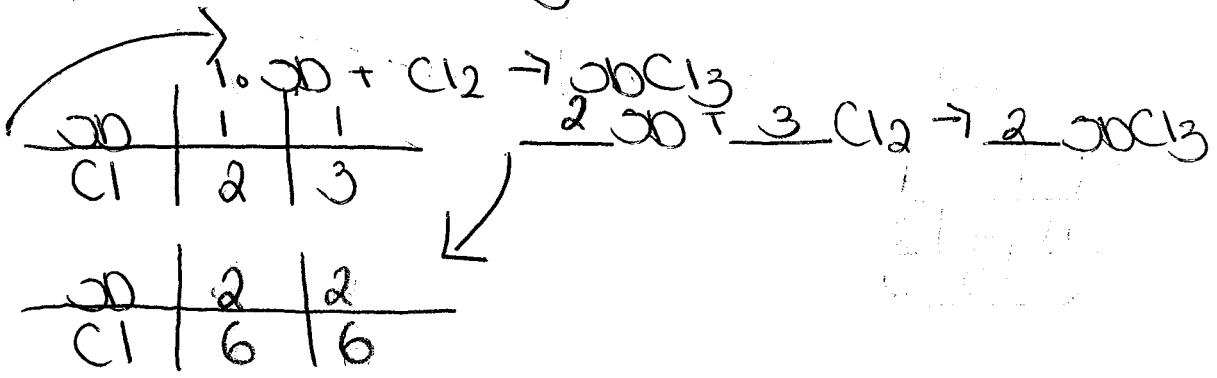


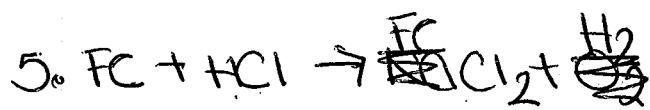
*Simplify:
 $1 \text{ Mg(OH)}_2 + 2 \text{ HCl} \rightarrow 1 \text{ MgCl}_2 + 2 \text{ H}_2\text{O}$*



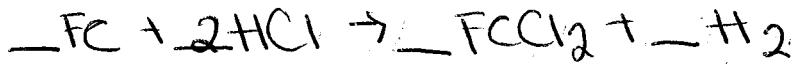
9. $1 \text{ SnO}_2 + 2 \text{ C} \rightarrow 1 \text{ Sn} + 2 \text{ CO}$	26. $1 \text{ MgCO}_3 \rightarrow 1 \text{ MgO} + 1 \text{ CO}_2$
10. $1 \text{ Pb(NO}_3)_2 + 1 \text{ H}_2\text{S} \rightarrow 1 \text{ PbS} + 2 \text{ HNO}_3$	27. $2 \text{ KBr} + 1 \text{ Cl}_2 \rightarrow 2 \text{ KCl} + 1 \text{ Br}_2$
11. $2 \text{ HgO} \rightarrow 2 \text{ Hg} + 1 \text{ O}_2$	28. $1 \text{ Zn} + 1 \text{ CuSO}_4 \rightarrow 1 \text{ Cu} + 1 \text{ ZnSO}_4$
12. $2 \text{ KClO}_3 \rightarrow 2 \text{ KCl} + 3 \text{ O}_2$	29. $4 \text{ P} + 3 \text{ O}_2 \rightarrow 1 \text{ P}_4\text{O}_6$ Amplify $\rightarrow 2 \text{ P} + 3 \text{ O}_2 \rightarrow 1 \text{ P}_4\text{O}_6$
13. $1 \text{ N}_2 + 3 \text{ H}_2 \rightarrow 2 \text{ NH}_3$	30. $1 \text{ SrBr}_2 + 1 \text{ (NH}_4)_2\text{CO}_3 \rightarrow 1 \text{ SrCO}_3 + 2 \text{ NH}_4\text{Br}$
14. $2 \text{ AgNO}_3 + 1 \text{ (NH}_4)_2\text{CrO}_4 \rightarrow 1 \text{ Ag}_2\text{CrO}_4 + 2 \text{ NH}_4\text{NO}_3$ $2 \quad 2 \quad 1$	31. $4 \text{ Li} + 1 \text{ O}_2 \rightarrow 2 \text{ Li}_2\text{O}$ Amplify $\rightarrow 2 \text{ Li} + 1 \text{ O}_2 \rightarrow 1 \text{ Li}_2\text{O}$
15. $2 \text{ K} + 2 \text{ H}_2\text{O} \rightarrow 2 \text{ KOH} + 2 \text{ H}_2$ Amplify $\rightarrow 2 \text{ K} + 2 \text{ H}_2\text{O} \rightarrow 2 \text{ KOH} + 2 \text{ H}_2$	32. $1 \text{ ZnCl}_2 + 2 \text{ KOH} \rightarrow 1 \text{ Zn(OH)}_2 + 2 \text{ KCl}$
16. $2 \text{ Al} + 3 \text{ Pb(NO}_3)_2 \rightarrow 2 \text{ Al(NO}_3)_3 + 3 \text{ Pb}$	33. $1 \text{ Fe}_3\text{O}_4 + 4 \text{ H}_2 \rightarrow 3 \text{ Fe} + 4 \text{ H}_2\text{O}$ Amplify $\rightarrow 1 \text{ Fe}_3\text{O}_4 + 2 \text{ H}_2 \rightarrow 3 \text{ Fe} + 2 \text{ H}_2\text{O}$
17. $3 \text{ Fe} + 2 \text{ O}_2 \rightarrow 1 \text{ Fe}_3\text{O}_4$	34. $1 \text{ Pb(NO}_3)_2 \rightarrow 1 \text{ Pb} + 2 \text{ NO}_2 + 1 \text{ O}_2$

6.5 Balancing Equations

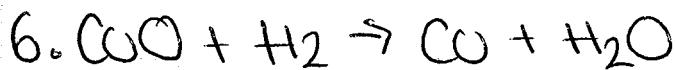




FC	1	1
H	1	2
Cl	1	2
X	1	2
X	1	2

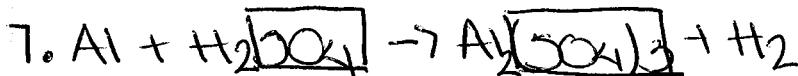


FC	1	1
H	2	2
Cl	2	2



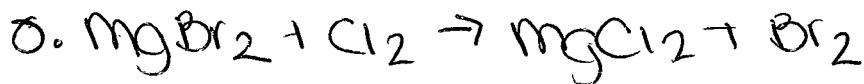
CO	1	1
O	1	1
H	2	2

✓
✓
✓



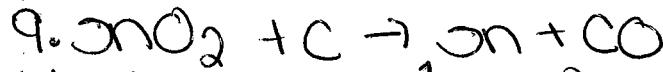
Al	1	2
H	2	3
O	1	3

Al	2	2
H	6	6
O	3	3



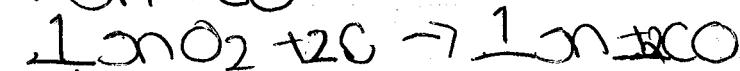
Mg	1	1
Br	2	2
Cl	2	2

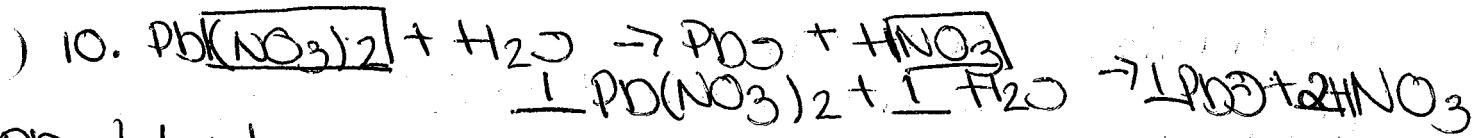
✓
✓
✓



Sn	1	1
O	2	1
C	1	1

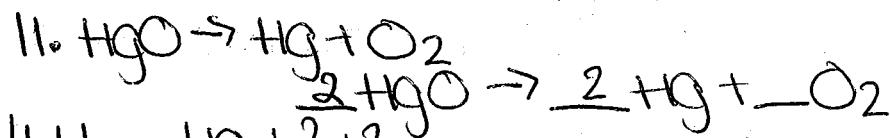
Sn	1	1
O	2	2
C	2	2





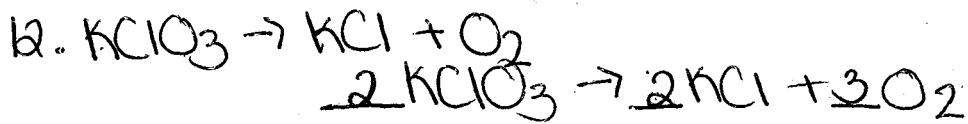
Pb	1	1
NO ₃	2	1
H	2	1
O	1	1

Pb	1	1
NO ₃	2	2
H	2	2
O	1	1



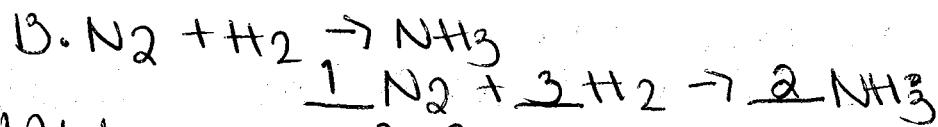
Hg	1	1
O	1	2

Hg	2	2
O	2	2



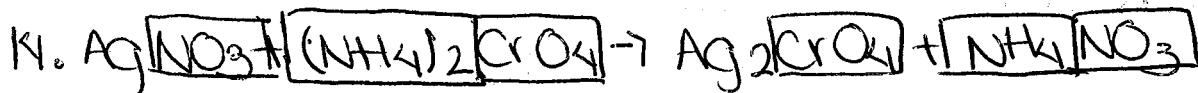
K	1	1
Cl	1	1
O	3	2

K	2	2
Cl	2	2
O	6	6



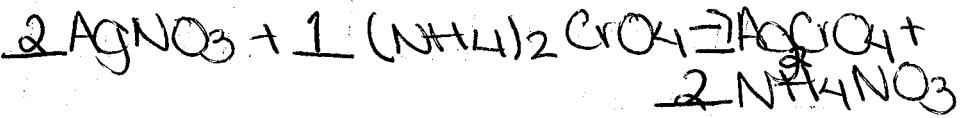
N	2	1
H	2	3

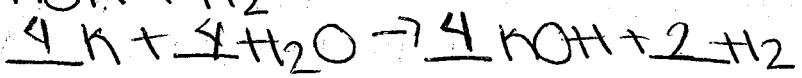
N	2	2
H	6	6



Ag	1	2
NO ₃	1	1
NH ₄	2	1
CrO ₄	1	1

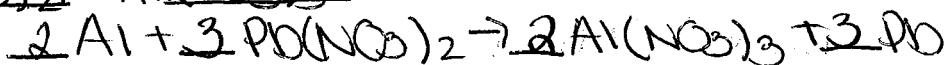
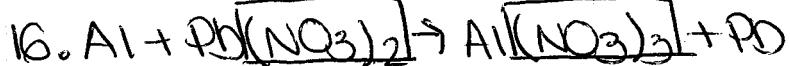
Ag	2	2
NO ₃	2	2
NH ₄	2	2
CrO ₄	1	1





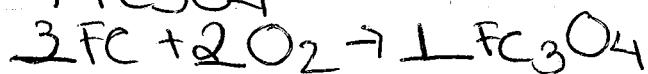
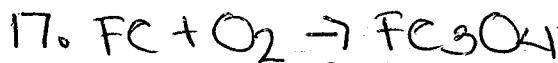
K	1	1
H	2	3
O	1	1

K	4	4
H	0	0
O	4	4



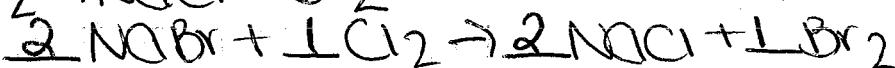
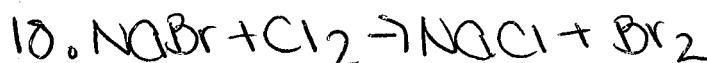
Al	1	1
Pb	1	1
NO ₃	2	3

Al	2	2
Pb	3	3
NO ₃	6	6



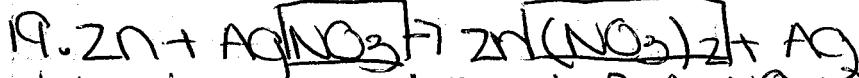
Fe	1	3
O	2	1

Fe	3	3
O	4	4



Na	1	1
Br	1	2
Cl	2	1

Na	2	2
Br	2	2
Cl	2	2



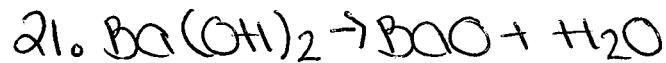
Zn	1	1
Ag	1	1
NO ₃	1	2

Zn	1	1
Ag	2	2
NO ₃	2	2



Cl	1	1
Cl	2	4

Cl	1	1
Cl	4	4



Ba	1	1
O	2	2
H	2	2

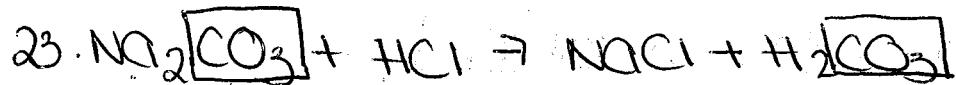
Ba	1	1
O		
H		



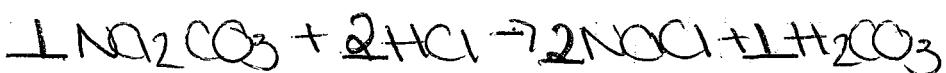
Mg	1	1
O	2	2
H	2	2



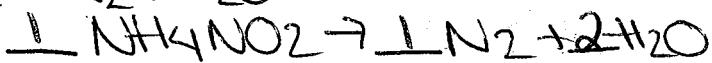
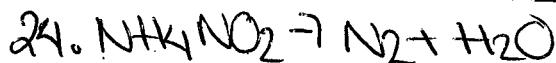
Mg	32	2
O	16	32
H	30	32
Cl	35	32



Na	2	1
CO ₃	1	1
H	1	2
Cl	1	1

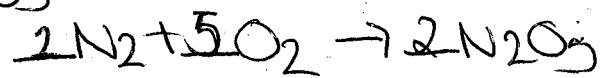


Na	2	2
CO ₃	1	1
H	2	2
Cl	2	2



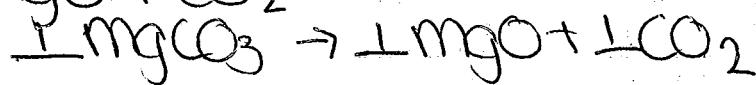
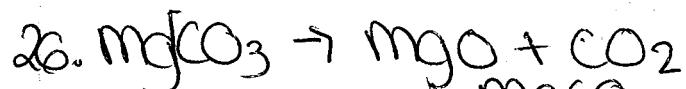
N	32	2
H	4	2
O	2	1

N	2	2
H	4	4
O	2	2

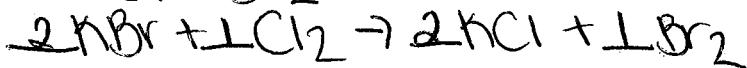
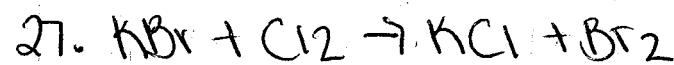


N	2	2
O	2	5

N	4	4
O	10	10

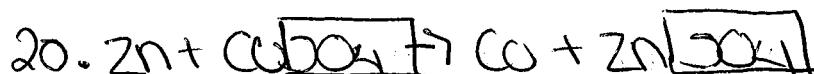


Mg	1	1
C	1	1
O	3	3

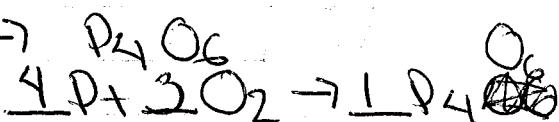
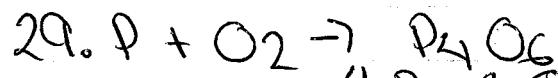


K	1	1
Br	1	2
Cl	2	1

K	2	2
Br	2	2
Cl	2	2

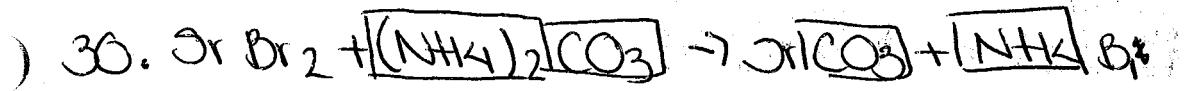


Zn	1	1
Cu	1	1
O	1	1

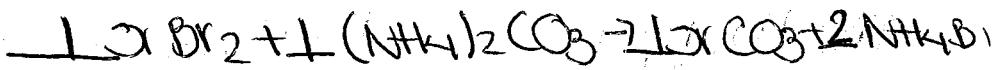


P	1	4
O	2	6

P	4	4
O	6	6



Br	1	1
Br	2	1
NH_4	2	1
CO_3	1	1



Br	2	2
NH_4	2	2
CO_3	1	1

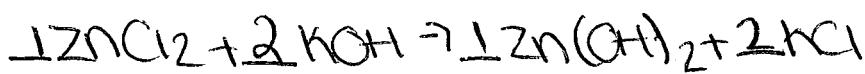


Li	1	1	2
O	2	1	

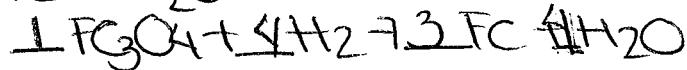
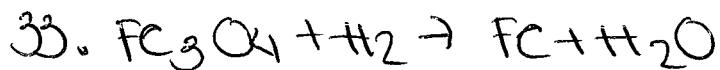
Li	1	1	4
O	2	2	



Zn	1	1
Cl	2	1
K	1	1
OH	1	2



Zn	1	1
Cl	2	2
K	2	2
OH	2	2



Fe	3	1
O	4	4
H	2	2

Fe	3	3
O	4	4
H	0	0



2A. ~~$\text{Pb}(\text{NO}_3)_2 \rightarrow \text{Pb} + \text{NO}_2 + \text{O}_2$~~

~~Pb~~

Pb	1	1
N	2	1
O	6	4



Pb	1	1
N	2	2
O	6	6