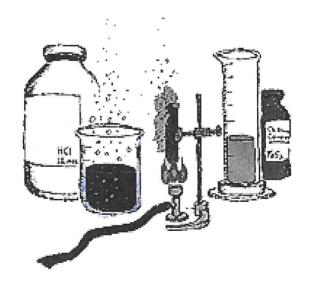
CHEMISTRY REDOX REACTION ASSIGNMENT

Write reaction equations and observations for each of the following metal oxidation and reduction reactions. Your answers must be placed on the answer sheets provided, which are designed to ensure appropriate set out!

- 1. A piece of Nickel metal is dropped into a beaker of concentrated Nitric Acid.
- 2. A piece of Copper metal is dipped into a Silver Nitrate solution.
- 3. A piece of Aluminium is dipped into a solution of 6M HCl.
- 4. A piece of Potassium metal is dipped into a beaker of water.
- 5. A piece of Zinc is ignited and dipped into a gas jar full of gaseous Chlorine.
- 6. A piece of Aluminium is heated sufficiently in air to ignite despite its protective oxide layer.
- 7. A piece of Iron is dropped into Hydrochloric Acid.
- 8. A piece of Silver is dropped into a beaker of concentrated Sulphuric Acid.
- 9. A piece of Iron is placed into a solution of Lead (II) Nitrate and left to stand overnight.
- 10. Chlorine gas is bubbled through a solution of sodium iodide.



Redox Rector (Armer)

rett Nia) + 24 No3 (4) -> Ni(No32 (40) + Hz (9)

nett Nia) + 24 ta) -> Ni2ta) + Hz (9)

a silvey metal is added to a colorlar soln, upon addition

there is an immediate efference of a colorlar, adollars 99,

the netal denotes and the solution turns green.

2 Cusi + 2Ag No3(ag) -> Cu(No3)(au) + 2Ag(s)

rett Cusi + 2As + (ag) -> Cut (au) + 2Ag(s)

(a solvan pick noted is added to a colorden soln, upon addition the noted divides, the solution blue and a black notal deport forms,

3 2Alog + GHClay -> 2Alclyay + 3HLG)

Noth 2Alog + GH+cay -> 2Al3+cay + 3HLG)

Some dos os Q1 except solver review colonders.

4 2kg + 2thon -> 2kong + H2g1

Not 2kg + 2mon -> 2ktan + 2on an + the (g)

Some on a Q3:

2 Zn(s) + (2 cg) > 2 n (12 cg) reth some.

a slivery metal is about to a greenish-yellow purget gos. The slivery metal dindres and gos forms a white solid,

6 4A(cs) +302 (g) => 2A(c) 3 (s) a silvey noth is hested to produce a white light. The metal disapport at a white solid is produced. rett feight 2kc/ (m) -> fe Chapt Hrg)
rett feight 2ut (m) -> Fe 2 m) + Mrg) des some a Q1 arrest sole turn pale gran 8 (Agas) + Hosox -> (RUT, 10) note also metagles of Agricular to 180 more no a has end m2 12 to 2 entry ethors with Ett of the 9 (meth Pb2+ +2e -> Pb(s) Fo = 0.17 V.

displacent fe(s) fex +2e Eo = +0.44V Pb 4(a)+ Fe(s) -> Fe(2) + Pb(s) nett = + 0.13) a silvey noted is added to a colourer soh, upon oddition the notal divides to form a part green ide and a black pet on, Perogen Clay + INa I(2) -> Nachay + Iz (2) displaced Clay + 2I and => 2 clical + Irap a project greent-yellow gos is bulled through a whomen set. The ga directors and the solution turn of from, and of his solid long part of the