Name: Blk:Date:
Chemistry 12 Electrochemistry Lesson #2 OXIDATION NUMBERS!!!
n OXIDATION NUMBER is
HIS IS A "FICTIOUS CONCEPT" , however, a useful idea.
he following ASSUMPTIONS can be made when assigning OXIDATION UMBERS, use the charges on the periodic table:
ENERAL RULES:
xample 1: What is the oxidation number of $\bf P$ in the molecule $H_4P_2O_7$ ?
xample 2: What is the oxidation number of <b>P</b> in P <sub>4</sub> ?

Example 3: What is the oxidation number of Cr in  $Cr^{3+}$ ?

Example 4: What is the oxidation number of Mn in  $\mathsf{KMnO}_4$  ?

TO DETERMINE IF A SUBSTANCE IS UNDERGOING **OXIDATION** OR **REDUCTION** IN A REDOX REACTION:

1.

2.

Example 1: Assign an oxidizing number to the bold species and then decide if it is being oxidized or reduced:

a. 
$$CIO_2 + C ---> CIO_2^- + CO_3^{2-}$$

b. 
$$CaO + 2I^{-}$$
 ----->  $Ca + I_2$ 

FOR HOMEWORK: DO Exercises pg 165 #'s 3-6, PLO's S2 + S3