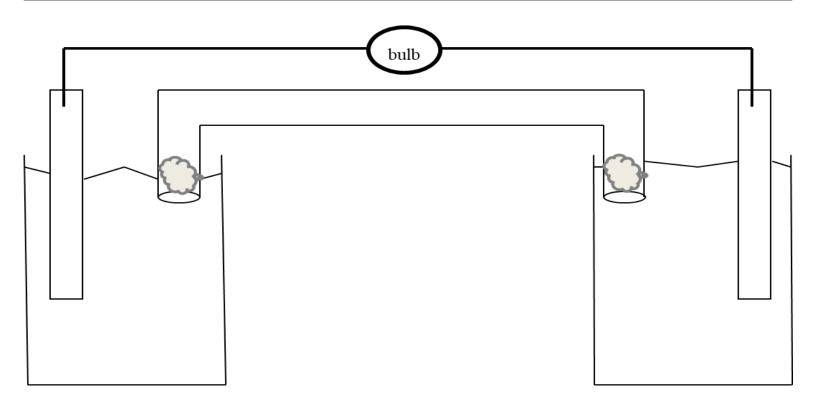
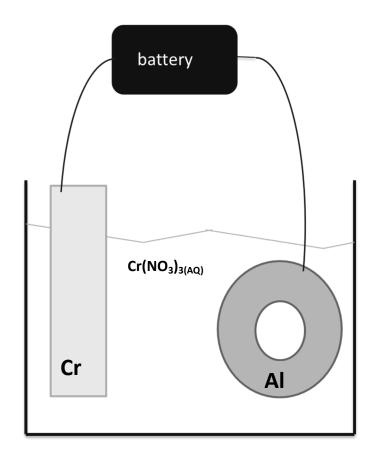
Fully label this voltaic cell, put zinc metal into a zinc nitrate solution on the right, put copper metal into copper (II) bromide solution at left. We will use a sodium chloride salt in the "bridge".

Write out half reactions, net reaction, and tell the 3 specific reasons that this cell will die.



$^{1}/_{2}$ OX
$^{1}/_{2}$ RED
NET
Why would this "battery" die? You might run out of



Fully label this electrolytic cell.

Make the chromium plate onto the aluminum metal
Write out half reactions, net reaction.

Careful with those chromium cations...

1 / $_{2}$ OX
1 / $_{2}$ RED
/2 KED
NET

Turn these word equations into balanced equations, then write out their half reactions and then balance them properly.

Write out the net ionic equations as well.

Tin metal is added to copper (I) nitrate, forming tin (IV) nitrate and copper.

 $^{1}/_{2}$ OX

 $^{1}/_{2}$ RED

NET

Sodium metal is added to zinc chloride solution...

 $^{1}/_{2}$ OX

 $^{1}/_{2}$ RED

NET