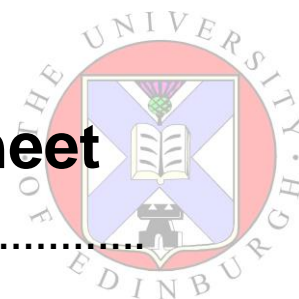


The Costly Battery - Worksheet



Name..... Class.....

Make Sure You Have...

2 p pieces

2p sized pieces of filter paper

2p sized pieces of aluminium foil

Salt (sodium chloride, NaCl) solution

Ammeter (for measuring current)

Wires

What To Do....

1. Soak the pieces of filter paper in the salt solution
2. Make layer the objects in the order: 2p, soaked paper, foil, soaked paper, 2p, soaked paper, foil, etc. Make sure either end of the stack is one of the metals.
3. Attach each wire of the Ammeter to either end of the stack.

What current do you measure?.....

4. Increase the height of the stack.

Has the current increased or decreased?.....

5. Tidy everything up (paper and aluminium can go in domestic waste and the solution can go down the sink).

The equation for the reaction at the aluminium is shown below. Please complete it.



Is aluminium higher or lower than copper in the electrochemical series?.....

Therefore, does aluminium donate or accept electrons in this reaction?.....

