ch.29 Simple chemical cell

2 metals in the same solution

-disadvantage : electrons may not flow through the external circuit

transfer of electron- directly between the electrodes

Half cell:

Salt bridge:

- a strip of filter paper soaked in a solution of electrolyte -
- e.g. potassium nitrate (x react with the substance in the cell)
- x hydroxide -
- allows ions of the soaked electrolyte move from one cell to another -

Reason we need it:

- 1. Excessive + / charge accumulate electrode
- 2. E.g. MgSO₄(Mg) and CuSO₄ (Cu)
- prevent mg ion (dissolve of Mg electrode) from entering the solution -
- -Prevent more electrons from entering the electrode

Functions:

- 1. completes the circuit ions to move from one cell to another otesale.co.uk
- 2. provide ions to balance the charge

Daniell cell

- half cell separated by porous device -
- porous device :
- 1. prevents direct mixing of m
- 2. completed the current by allowing

Electival neutrality :

(concentration gradient)- negative ions move into the device positive ions move out -