# Equation Sheet for A-Level Chemistry

These are the equations you need to memorise for your Chemistry A-Level

#### Amount of Substance

Modern D = 00 Mile

Concentration CHE

Molar gas volume V = n x 24

Number of particles - max Ma.

Ideal gas Equation DW - DRT

Theoretical yield

Atom economu M-of desired product DC SOICH Sum of M, of all reactants

56 YEARS Actual useld DOM: NO CO Energetics

Enthalpy change Q - mcaT

Average bond enthalpy  $\Delta H * \Sigma$  (bond enthalples in reactants) I(bond enthalpies in products)

Electrode Potentials

EMF

E® \*E®right hand side - E®left hand side

Thermodunamics

Gibbs Free Energy Equation AG = AH = TAS

Transition Metals

Coloured complex ions - difference in energy AE - hv - hc

Equilibrium constant wrt pressure K - (D) (E)

Rate Equations

concentration

[A] "[B]"

(A)"(B)"

Rate - KIAJ TOJ"

K - DOT TET

Arrhenius is provided but you should be able to use:

Chemical Equilibria

Equilibrium constant wrt

K = An -Carr ink = -Ea/RT + in A

Acids and Bases pH = -log<sub>10</sub>[H-]

K- DHTMOHT

pKa \* -log o Ka

K. - DH'IKA I DHAT

# These are the meaning of the symbols on the equation sheet



#### Amount of Substance

n - number of moles m - mass Mr . formula mass C - concentration W - wolume NA . Avogadro's constant p \* pressure R • gas constant T - temperature

# Rate Equations

k = rate constant [A] = concentration of A [B] - concentration of B a - order wrt A D - order wit B A • Arrhenius pre exponential factor e - exponential E .- activation energu

#### Energetics

q - heat energy m - mass c - specific heat capacity AT - change in temperaure AH - enthalpy change)

#### Electrode Potentials

Eº . electrode potential

#### Thermodunamics

AG - Gibbs free energy AH \* enthalpy change T = temperature AS - change in entropy

#### Transition Metals

A.E. - change in energy n . Planck's constant v = frequencu

#### Chemical Equilibria

K. . Equilibrium constant (wrt concentration) K. . Equilibrium constant (wrt pressure) [A] / (A) - concentration/partial pressure of reactant A (B) / (B) \* concentration/ partial pressure of reactant B

[D] / (D) - concentration/ partial pressure of product D (E) / (E) - concentration/ partial

pressure of product E a . moles of A from balanced equation b • moles of 8 from balanced equation

d • moles of D from balanced equation e - moles of E from balanced equation

#### Acids and Bases

[H\*] - concentration of H [OH:] - concentration of OH [A:] = concentration of salt

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J Elliott

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