General Chemistry II

FINAL EXAM REVIEW SHEETS / 8 pages / 16 worked ideas

01 KINETICS

Rate laws come from experiments, not balanced coefficients.

Rate law

RULE

rate = k[A]^m[B]^n

DECISION CUE / TRAP

Orders are measured from rates; do not use equation coefficients.

TRY IT

If doubling [A] doubles rate, with [B] fixed.

WORKED STEP

The reaction is first order in A.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

First-order half-life

RULE

t1/2 = ln(2)/k

DECISION CUE / TRAP

For first order, half-life does not depend on starting concentration.

TRY IT

0.800 M after three half-lives.

WORKED STEP

0.800/2^3 = 0.100 M.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

SAMPLE

Watermarked sample - full pack has 8 pages and 16 worked ideas