

Skill summary Chapter 14

Skill	Problems
Express rates	5, 6
Write rate laws	9, 10
Use the initial rate method for order or reactions	15, 16
Calculate the rate constant	18
Work with concentration/time equations	23, 24
Work with half-life	21, 22
Arrhenius equation – rate vs T vs E_a	34, 36, 37
Mechanisms	45, 46, 47

Chapter 15

Write K_{eq} expressions	7, 8
Calculate K_{eq} from concentrations or pressures at equilibrium	13, 14, 22
Use K_{eq} to calculate equilibrium conditions from initial conditions	30, 32, 36
Use Q_c to calculate the direction towards equilibrium	60
Work with LeChatelier's principle	44, 46, 48