

Topic	Chapter	Atkins' PChem reading
The properties of gases		
The perfect gas	1A	29-36
The kinetic model	1B	37-44
Real gases	1C	45-53
The first law		
Internal energy	2A	64-74
Enthalpy	2B	75-79
Thermochemistry	2C.1-2C.3	80-87
State functions and exact differentials	2D	90-99
Adiabatic changes	2E	100-102
Midterm 1		
The second and third laws		
Entropy	3A	113-125
The measurement of entropy	3B	126-130
Concentrating on the system	3C	131-139
Combining the first and second laws	3D	140-148
Simple mixtures		
Partial molar Gibbs energies	5A.1(b)	182-187
Chemical equilibrium		
The equilibrium constant	6A	245-253
The response of equilibria to the conditions	6B	254-258
Midterm 2		
Chemical Kinetics		
The rates of chemical reactions	20A	820-826
Integrated rate laws	20B	827-832
Reactions approaching equilibrium	20C	833-836
The Arrhenius equation	20D	837-841
Reaction mechanisms	20E	842-848
Enzymes	20H	863-869
Application of theories		Supplementary materials
Statistical thermodynamics		
The Boltzmann distribution	15A	605-611
Partition functions	15B	612-623
Molecular energies	15C	624-629
The canonical ensemble	15D	630-635
The internal energy and the entropy	15E	636-644
Derived functions	15F	645-650
Final exam		