

Assignment #	Corresponding lectures & topics discussed	Discussion sections where discussed	Text book problems	ACS guide problems
1	Sep 2 & 4 Variables that describe gas behavior Ideal gases Kinetic molecular theory Gas mixtures	Tues Sep 9 Thurs Sep 11	Ch. 10: 1, 4, 7, 9, 17, 21, 23, 25, 31, 35, 43, 45, 47, 53, 57, 59, 63, 69, 73, 77, 81, 85 Additional practice problems on gas behavior (see website)	p. 29 #25 p. 33 #SM-6 p. 34 # SM-7 p. 40 #29 p. 41 #30
2	Sep 9 & 11 Behavior of gases: effusion and diffusion Real vs. ideal gases Solid, liquid and gas phases of matter Properties of liquids and solids Phase changes and phase diagrams	Tues Sep 16 Thurs Sep 18	Ch. 10: 102, 105 Ch. 11: 1, 4, 11, 33, 35, 39, 51, 55 Additional practice problems on stoichiometry using ideal gas law (see website)	p. 31 #SM-1 and #SM-2 p. 33 #SM-5 p. 35 # SM-10 p. 36 #1 and 2 p. 37 #9 and 10 p. 38 #11, 12, 13 and 14 p. 49 #4
3	Sep 16 & 18 Intermolecular forces in pure substances Intermolecular forces in mixtures Reasoning about physical properties using intermolecular forces to explain	Tues Sep 23 Thurs Sep 25	Ch. 11: 2 [∞] , 5 [∞] , 6 [∞] , 11, 13, 15, 17, 19, 21, 25, 29, 43, 45, 49, 71, 73, 75, 79, 82	p. 15 #MS-9 p. 17 #14 and 20 p. 36 #3 and 4 p. 37 #9 and 10 p. 39 #19 p. 40 #27 p. 91 #DP p. 98 #3 and 4
4	Sep 23 & 25 Characterizing solutions: solubility and saturation Ways of expressing solution concentration Review for Exam 1 (on Tues Sep 30)	Tues Sep 30 Thurs Oct 2	Ch. 13: 1, 11, 13, 23, 27, 29, 35	p. 14 #MS-8 p. 18 #22 p. 32 #SM-4 p. 34 #SM-8 p. 36 #3 and 4 p. 37 #5 p. 38 #15 p. 40 #27 and 28
5	Sep 30 & Oct 2 Exam 1 covers chapters 10 and 11 Lecture on Oct 2 covers: Mathematics of solution concentrations Colligative properties	Tues Oct 7 Thurs Oct 9	Ch. 13: 6, 13, 21, 31, 37, 39, 41, 45, 47, 55, 57, 63, 67, 69, 73, 88	p. 37 #6 and 9 p. 39 #16, 20, 21, 22 & 23 p. 40 #24

[∞] Solutions to non-red text problems assigned from text book will be linked on website