

Chem 1100 Homework Problems for 11th Edition

Meeting #	Assigned Material
Meeting 1 Read: Homework:	Math Review, Dimensional Analysis, Basic Concepts Chapter 1 (Memorize Table 1.2) Most of the problems below are a review of high school math and will not be covered in class. The problems on dimensional analysis, significant figures and basic chemical concepts (BLB Ch. 1, will be covered). If you have difficulty with the math problems, consider transferring to Chemistry 1.1. Practice Exercises a–d, p. 1106 Chapter 1, Problems 6, 13, 14, 15, 17, 19, 22, 25, 27, 33, 35, 37, 39, 41, 43, 45, 71
Meeting 2 Read: Homework:	Elements, Compounds, Ions, Periodic Table Chapter 2 (Memorize Table 2.4 and 2.5) Chapter 2, Problems 1, 9, 11, 13, 16, 23, 25, 29, 33, 35, 37, 41, 43, 45, 49, 52, 55, 59, 61, 65, 61, 69, 70, 71, 102
Meeting 3 Read: Homework:	Chemical Equations, Moles, Empirical Formulas Chapter 3.1–3.5 Chapter 3, Problems 1, 9, 11, 13, 17, 19, 21, 23, 25, 27, 28, 33, 35, 39, 43, 45, 47, 49, 51, 53
Meeting 4 Read: Homework:	Stoichiometry, Chemical Reactions Chapter 3.6, 3.7, and Chapter 4.1–4.2 Chapter 3, Problems 7, 57, 58, 74, 77, 80, 102, 104 Chapter 4, Problems 12, 15, 19, 21, 24
Meeting 5 Read: Homework:	Acid-Base Reactions, Oxidation of Metals Chapter 4.3, 4.4 Chapter 4, Problems 31, 32, 37, 39, 45a, 47, 51b, 51c, 53, 56
Meeting 6 Read: Homework:	Molarity, Solution Stoichiometry Chapter 4.5, 4.6 Chapter 4, Problems 59, 60, 61, 67, 71, 72, 75, 76 81, 83, 85, 111
Meeting 7 Read: Homework:	Thermochemistry Chapter 5 Chapter 5, Problems 11, 12, 13, 21, 24, 25, 37, 41, 44, 45, 49, 51, 53, 55, 60, 63, 65, 67, 71, 74, 81, 104
Meeting 8 Read: Homework:	Gases Chapter 10.1–10.8 Chapter 10, Problems 5, 16, 19, 23, 24, 26, 27, 29, 30, 34, 35, 39, 41, 45, 49, 50, 54, 55, 59, 61, 65, 69, 71, 76, 77, 82
Meeting 9 Read: Homework:	Atomic Structure Chapter 6 Chapter 6, Problems 9, 10, 11, 13, 14, 15, 17, 19, 23, 25, 26, 27, 33, 36, 37, 49, 50, 51, 53, 54, 55, 57, 59, 63, 64, 67, 71, 73, 75, 99
Meeting 10 Read: Homework:	Periodic Properties, Ionic Bonding Chapter 7.1–7.6, and Chapter 8.1–8.3 Chapter 7, Problems 11, 15, 19, 21, 23, 24, 25, 27, 31, 33, 36, 39, 41, 42, 45, 47, 52, 53, 58, 60, 61, 69, 71 Chapter 8, Problems 7, 11, 13, 17, 20, 21, 22, 24

Meeting 11 Read: Homework:	Covalent Bonding, Bond Energy, Polarity Chapter 8.4–8.9 Chapter 8, Problems 29, 31, 33, 35, 38, 39, 45, 46, 49 (omit calculation of oxidation numbers), 51, 52, 53, 54, 55, 59, 60, 61, 62a, 62d, 65, 66, 90
Meeting 12 Read: Homework:	Molecular Shape, Dipoles Chapter 9.1–9.3 Chapter 9, Problems 13, 16, 17, 19, 22, 23, 24, 25, 31, 36, 38, 82
Meeting 13 Read: Homework:	Intermolecular Forces, Phase Changes, Solubility, Concentrations Chapter 11.1, 11.2, 11.4, 11.5, and Chapter 13.1–13.4 Chapter 11, Problems 9, 10, 13, 15, 16, 19, 21, 23, 35, 39, 43, 45, 47, 49, Chapter 13, Problems 15, 16, 23, 29, 33, 34, 35, 37, 39, 41, 44, 45, 47
Meeting 14 Read: Homework:	Colligative Properties, Phase Diagrams, Solids Chapter 13.5, and Chapter 11.6–11.8 Chapter 13, Problems 61, 67, 68, 70, 75, 76 Chapter 11, Problems 53, 56, 61, 63, 67, 75, 77, 78