CHEM 1000 Reading List

Silberberg 1st Canadian edition

	Topic	Readings
1	Math and Stoichiometry Review	Chapter 1 (sections 1.4 – 1.6)
		Chapter 3 (sections 3.1 – 3.5)
2	Atoms, Isotopes and Nuclear Chemistry	Chapter 2 (sections 2.1 – 2.5)
		Chapter 25
3	Light and the Atom	Chapter 6 (sections 6.1 – 6.3)
4	Electrons, Orbitals and Quantum Numbers	Chapter 6 (section 6.4)
		Chapter 7 (section 7.1)
5	Electron Configurations and Periodic Trends	Chapter 7 (sections 7.2 – 7.4)
6	Metals of Groups 1 and 2	Chapter 2 (sections 2.6 – 2.7, pp. 59 – 61)
		Chapter 13 (sections 13.2 – 13.4)
		Chapter 23 (pp. 1026 – 1028: production of Na)
		Chapter 23 (pp. 1040 – 1041: production of NaOH)
7	More Metals and Ionic Solids	Chapter 8 (sections 8.1 – 8.2 except Born-Haber
		cycles)
		Chapter 13 (section 13.5 except boron)
		Chapter 23 (pp. 1031 – 1034: production of Al)
8	Lewis Diagrams and VSEPR Geometries	Chapter 8 (sections 8.3 – 8.6)
		Chapter 9 (section 9.1)
9	Polarity, Intermolecular Forces and Kinetic	Chapter 9 (section 9.2)
	Molecular Theory	Chapter 11 (section 11.3)
		Chapter 4 (sections 4.5 – 4.6; the earlier sections of
		this chapter review gases from high school; if you
		are weak on this topic, read them too)
10	Nonmetals Part 1 (Hydrogen and Acids)	Chapter 2 (pp. 62 – 65)
		Chapter 13 (section 13.1)
		Chapter 16 (sections 16.1 – 16.2, 16.5 and 16.8)
11	Nonmetals Part 2 (Groups 14-17 and Boron)	Chapter 13 (sections 13.5 – 13.9)
		Chapter 15 (section 15.6 focusing on pp. 631 – 633)
		Chapter 23 (pp. 1017 – 1018: production of NH ₃)
		Chapter 23 (pp. 1035 – 1040: production of S ₈)
12	Co-ordination Chemistry and Colour	Chapter 24 (sections 24.1 and 24.3)
		Chapter 24 (section 24.4 starting at p. 1066)