

Sussex County Community College
Newton, NJ 07860
CHEM 112

Textbook: Chemistry, 5th Edition Bundle; Gilbert; ISBN 9780393628166.

L	Topic	Chapter	Homework**
1	Energy, Enthalpy, Changes of State, Calorimetry, First Law of Thermodynamics	5.1-5.3, 5.6	11, 37, 47, 51, 53, 69, SmartWork, Quiz 1
2	Heat of Reaction, Hess's Law, Intermolecular Forces	5.4-5.7 10.1-10.2, 11.1	5(75,77,83,85,87), SmartWork 10(9,23,25,31,33), 11.15 Quiz 2
3	Intermolecular Forces, Solubility Liquids and Solids	10.2-10.6 12.2, 12.6	10(27,29,35,37,47,61,81,93), SmartWork, Quiz 3
4	Properties of Solutions Exam I (Lectures, L 1-3)	11.1-11.2	15, 21, 23, 31, 35 SmartWork, Quiz 4
5	Colligative Properties , Writing and Naming Complexes	11.3, 11.5-11.6 22.2-22.3	11(51, 53, 65a, 73, 77, 95) 22(23, 25), SmartWork, Quiz 5
6	Chemical Kinetics	13	1,5,7,9,11,29c,33,49,51,53,61,65, 69, 87, 99, 101, SmartWork, Quiz 6
7	Chemical Equilibrium	14	7,9,11,13,15,17,19,21,25,33,45,51 53,71,77,81,85, SmartWork, Quiz 7
8	Acid and Bases, pH Scale pH of Strong and Weak Acids and Bases	15.1-15.4	13,17,19,21,23,31a,33a,41,53,57, 63, SmartWork, Quiz 8
9	Acid-Base: Reactions and Properties of Salts Exam II (Lectures, L 4-8)	15.5-15.8	79,80,83, SmartWork , Quiz 9
10	Buffer Solutions, Lewis Acid & Base Titrations, pH Curves, Indicators	16.2-16.5	7, 21, 23, 33, 43, 47, 58, 61, SmartWork, Quiz 10
11	Complex Ion and Solubility Equilibria Precipitation and Qualitative Analysis	16.6-16.8	95, 97, 99, 101, 107 SmartWork, Quiz 11
12	Principles of Reactivity Entropy and Free Energy	17.1-17.8	19, 21, 25a, 31a, 35, 43, 45, 53, 65, 70, SmartWork, Quiz 12
13	Electrochemistry	18	3, 13a, 15, 25, 29, 35, 37b, SmartWork, Quiz 13
14	Electrochemistry Exam III (Lectures, L 9-13)		
15	Final (comprehensive)		

** Checked the following week.

Previous Edition Support

Chemistry, 4th Edition; Gilbert, Kirss, Foster, Davies; Norton; ISBN 9780393919370.

Week	Topic	Chapter	Homework**
1	Energy, Enthalpy, Changes of State , Calorimetry, First Law of Thermodynamics	5.1-5.3, 5.6	11, 37, 47, 51, 53, 69, SmartWork, Quiz 1
2	Heat of Reaction, Hess's Law , Intermolecular Forces	5.4-5.7 10.1-10.2	5(75,77,83,85,87), SmartWork 10(9,23,25,27), Quiz 2
3	Intermolecular Forces, Solubility Liquids and Solids	10.2-10.5, 10.7 12.2, 12.6	10(35,37,47,61,85,95), SmartWork, Quiz 3
4	Properties of Solutions Exam I (Lectures, L 1-3)	11.1-11.2	15, 25, 29, 30, 33, 35, SmartWork, Quiz 4
5	Colligative Properties , Writing and Naming Complexes	11.3, 11.5-11.6 17.2, 17.4, 17.6	11(45, 53, 65a, 73, 77, 95) SmartWork, 17(35, 39) Quiz 5
6	Chemical Kinetics	14	1,5,7,9,11,31c,33,49,51,53,61,65, 69, 87, 99, 101, SmartWork, Quiz 6
7	Chemical Equilibrium	15	7,9,11,13,15,17,19,21,25,33,45,52,53 61,73,77,81,85, SmartWork, Quiz 7
8	Acid and Bases, pH Scale pH of Strong and Weak Acids and Bases	16.1-16.4	17, 19, 23, 31a, 33, 41, 47, 53, 57, 63, SmartWork, Quiz 8
9	Acid-Base: Reactions and Properties of Salts Exam II (Lectures, L 4-8)	16.5-16.6 17.1, 17.5	16(73, 79, 83), SmartWork, 17(13, 15, 41, 49) Quiz 9
10	Buffer Solutions, Lewis Acid & Base Titrations, pH Curves, Indicators	16.7-16.9	7, 87, 89, 95, 99, 101,103,105,113, 115, 123, SmartWork, Quiz 10
11	Complex Ion and Solubility Equilibria Precipitation and Qualitative Analysis	16.10, 17.3	16(127, 135, 137, 139, 141, 147) 17(31), SmartWork, Quiz 11
12	Principles of Reactivity Entropy and Free Energy	18.1-18.8	21, 25a, 31a, 35, 43, 45, 53, 65, 70, SmartWork, Quiz 12
13	Electrochemistry	19	3, 13a, 15, 25, 27b, 29, 35b, 37, 75, SmartWork, Quiz 13
14	Electrochemistry Exam III (Lectures, L 9-13)		
15	Final (comprehensive)		

** Checked the following week.

Chemistry & Chemical Reactivity, 8th Edition; Kotz, Treichel, Townsend; Thomson-Brooks-Cole; ISBN 9780495387039.

Class	Topic	Chapter	Minimum Homework
1	Energy, Enthalpy, Changes of State, First Law of Thermodynamics	5.1-5.4	17, 25, 29
2	Heat of Reaction, Hess's Law, Calorimetry	5.5-5.8	33, 45, 57
3	Intermolecular Forces Liquids and Solids	12	5, 7, 17, 20, 25
4	Properties of Solutions Exam I (Lectures, L 1-3)	14.1-14.3	3, 9, 13, 21
5	Colligative Properties Naming Complexes	14.4 22.3	23, 29, 31, 35, 43, 47 9, 13, 17
6	Chemical Kinetics	15	3, 9, 13, 15, 19, 21, 33, 39
7	Chemical Equilibrium	16	5, 9, 15, 23, 25
8	Acid and Bases, pH Scale pH of Strong and Weak Acids and Bases	17.1-17.3	3, 7, 9, 13
9	Acid-Base: Reactions and Properties of Salts Exam II (Lectures, L 4-8)	17.4-17.8	15, 21, 27, 29, 35, 37, 41, 47, 57
10	Buffer Solutions, Lewis Acid & Base Titrations, pH Curves, Indicators	17.9 18.1-18.3	61, 69 3, 11, 15, 29
11	Complex Ion and Solubility Equilibria Precipitation and Qualitative Analysis	18.4-18.7	35, 37, 41, 45, 53, 57, 59, 69
12	Principles of Reactivity Entropy and Free Energy	19	7, 13, 15, 19, 23, 27
13	Electrochemistry	20	7, 13, 19, 26, 31, 43
14	Electrochemistry Exam III (Lectures, L 9-13)		
15	Final (comprehensive)		

Textbook: Chemistry & Chemical Reactivity, 7th Edition; Kotz, Treichel, Townsend; ISBN-10 0-495-38703-7.

Class	Topic	Chapter	Minimum Homework
1	Energy, Enthalpy, Changes of State, First Law of Thermodynamics	5.1-5.4	17, 25, 29
2	Heat of Reaction, Hess's Law, Calorimetry Intermolecular forces (start)	5.5-5.8	33, 45, 57
3	Intermolecular Forces Liquids and Solids	12	5, 7, 17, 20, 25
4	Properties of Solutions Exam I (Lectures, L 1-3)	14.1-14.3	3, 9, 13, 21
5	Colligative Properties Naming Complexes	14.4 22.3	23, 29, 31, 35, 43, 47 9, 13, 17
6	Chemical Kinetics	15	3, 9, 13, 15, 19, 21, 33, 39
7	Chemical Equilibrium	16	5, 9, 15, 23, 25
8	Acid and Bases, pH Scale pH of Strong and Weak Acids and Bases	17.1-17.3	3, 7, 9, 13
9	Acid-Base: Reactions and Properties of Salts Exam II (Lectures, L 4-8)	17.4-17.8	15, 21, 27, 29, 35, 37, 41, 47, 57
10	Buffer Solutions, Lewis Acid & Base Titrations, pH Curves, Indicators	17.9 18.1-18.3	61, 69 3, 11, 15, 29
11	Complex Ion and Solubility Equilibria Precipitation and Qualitative Analysis	18.4-18.7	35, 37, 41, 45, 53, 57, 59, 69
12	Principles of Reactivity Entropy and Free Energy	19	7, 13, 15, 19, 23, 27
13	Electrochemistry Exam III (Lectures, L 9-13)	20	7, 13, 19, 26, 31, 43
14	Final (comprehensive)		