

Apologia Chemistry 3rd Edition

Audio MP3

CD	Textbook Section	Audio MP3 CD	Audiobook
Track	Module 1	Filename	Start Time
1	Units of Measurement	01001.mp3	0:00:00
2	The Metric System	01002.mp3	0:08:04
3	Manipulating Units	01003.mp3	0:12:38
4	Converting between Units	01004.mp3	0:19:01
5	Converting between Unit Systems	01005.mp3	0:27:17
6	More Complex Unit Conversions and Problem Solving	01006.mp3	0:28:31
7	Derived Units	01007.mp3	0:32:38
8	Making Measurements	01008.mp3	0:42:25
9	Accuracy, Precision, and Significant Figures	01009.mp3	0:49:19
10	Scientific Notation	01010.mp3	1:00:40
11	Using Significant Figures in Mathematical Problems	01011.mp3	1:07:26
12	Measuring Temperature	01012.mp3	1:12:14
13	The Nature of a Scientific Law	01013.mp3	1:18:39
14	Experimentation and the Scientific Method	01014.mp3	1:24:17
Track	Module 2	Filename	Start Time
15	Early Attempts to Understand Matter	02001.mp3	0:00:00
16	The Law of Mass Conservation	02002.mp3	0:05:18
17	Elements: The Basic Building Blocks of Matter	02003.mp3	0:08:30
18	Compounds	02004.mp3	0:21:01
19	The Law of Multiple Proportions	02005.mp3	0:24:37
20	Dalton's Atomic Theory	02006.mp3	0:28:34
21	Molecules: The Basic Building Blocks of Compounds	02007.mp3	0:35:28
22	Abbreviating and Classifying Compounds	02008.mp3	0:37:16
23	Classifying Matter as Ionic or Covalent	02009.mp3	0:41:05
24	Naming Compounds	02010.mp3	0:46:41
25	Classifying Matter	02011.mp3	0:52:54
Track	Module 3	Filename	Start Time
26	Historical Overview	03001.mp3	0:00:00
27	Electrical Charge	03002.mp3	0:05:29
28	Electrical Charge and Atomic Structure	03003.mp3	0:09:45
29	Determining the Number of Protons and Electrons in an Atom	03004.mp3	0:12:53
30	Determining the Number of Neutrons in an Atom	03005.mp3	0:14:10
31	Isotopes and Nuclear Bombs	03006.mp3	0:20:44
32	Atomic Structure in More Detail	03007.mp3	0:23:43
33	The Nature of Light	03008.mp3	0:35:38
34	The Electromagnetic Spectrum	03009.mp3	0:48:30
35	The Relationship between Frequency and Energy	03010.mp3	0:55:41
36	How the Eye Detects Color	03011.mp3	0:58:19
37	The Bohr Model of the Atom	03012.mp3	1:02:48
38	The Quantum Mechanical Model of the Atom	03013.mp3	1:13:37

39	Building Atoms in the Quantum Mechanical Model (Electron	03014.mp3	1:24:08
40	Abbreviated Electron Configurations	03015.mp3	1:39:16
41	The Amazing Design of Atoms	03016.mp3	1:40:34

Track	Module 4	Filename	Start Time
42	Electron Configurations and the Periodic Table	04001.mp3	0:00:00
43	Lewis Structures	04002.mp3	0:12:14
44	Lewis Structures for Ionic Compounds	04003.mp3	0:15:14
45	Handling the Exceptions in Ionic Compounds	04004.mp3	0:31:58
46	Ionization Energy and Periodic Properties	04005.mp3	0:35:31
47	Electronegativity: Another Periodic Property	04006.mp3	0:41:37
48	Atomic Radius: Another Periodic Property	04007.mp3	0:44:29
49	Lewis Structures of Covalent Compounds	04008.mp3	0:47:56
50	More Complicated Lewis Structures	04009.mp3	1:01:27
51	An Application of Lewis Structures	04010.mp3	1:07:00

Track	Module 5	Filename	Start Time
52	Polyatomic Ions	05001.mp3	0:00:00
53	Molecular Geometry: The VSEPR Theory	05002.mp3	0:09:42
54	Nonpolar Covalent and Polar Covalent Bonds	05003.mp3	0:24:45
55	Nonpolar Covalent and Polar Covalent Molecules	05004.mp3	0:35:02
56	The Practical Consequence of Whether or Not a Molecule Is P	05005.mp3	0:40:57

Track	Module 6	Filename	Start Time
57	Classifying Changes That Occur in Matter	06001.mp3	0:00:00
58	Phase Changes	06002.mp3	0:07:08
59	The Kinetic Theory of Matter	06003.mp3	0:13:05
60	Density	06004.mp3	0:20:02
61	Phase Changes in Water	06005.mp3	0:26:06
62	Chemical Reactions and Chemical Equations	06006.mp3	0:28:42
63	Determining Whether or Not a Chemical Equation Is Balanced	06007.mp3	0:41:57
64	Balancing Chemical Equations	06008.mp3	0:47:22

Track	Module 7	Filename	Start Time
65	Three Basic Types of Chemical Reactions	07001.mp3	0:00:00
66	Decomposition Reactions	07002.mp3	0:01:58
67	Formation Reactions	07003.mp3	0:06:03
68	Combustion Reactions	07004.mp3	0:07:53
69	Combustion of Metals	07005.mp3	0:09:15
70	Complete Combustion Reactions	07006.mp3	0:11:35
71	Incomplete Combustion Reactions	07007.mp3	0:13:12
72	Atomic Mass	07008.mp3	0:20:38
73	Molecular Mass	07009.mp3	0:27:02
74	The Mole Concept	07010.mp3	0:28:00
75	Using the Mole Concept in Chemical Equations	07011.mp3	0:39:10

Track	Module 8	Filename	Start Time
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76	Mole Relationships in Chemical Equations	08001.mp3	0:00:00
77	Limiting Reactants and Excess Components	08002.mp3	0:06:11
78	Fully Analyzing Chemical Equations	08003.mp3	0:10:19
79	Relating Products to Reactants in Chemical Equations	08004.mp3	0:14:03
80	Using Chemical Equations When the Limiting Reactant Is Ider	08005.mp3	0:16:57
81	Volume Relationships for Gases in Chemical Equations	08006.mp3	0:22:02
82	Mass Relationships in Chemical Equations	08007.mp3	0:27:22
83	Using Stoichiometry to Determine Chemical Formulas	08008.mp3	0:35:57
84	Empirical and Molecular Formulas	08009.mp3	0:38:34
85	More Complicated Experiments for Determining Chemical Fo	08010.mp3	0:46:23

Track	Module 9	Filename	Start Time
86	Acids and Bases	09001.mp3	0:00:00
87	The Chemical Definitions of Acids and Bases	09002.mp3	0:06:26
88	The Behavior of Ionic Compounds in Aqueous Solutions	09003.mp3	0:14:25
89	Identifying Acids and Bases in Chemical Reactions	09004.mp3	0:16:39
90	Recognizing Acids and Bases from Their Chemical Formulas	09005.mp3	0:19:06
91	Predicting the Reactions That Occur between Acids and Base:	09006.mp3	0:23:51
92	The Reactions between Acids and Covalent Bases	09007.mp3	0:32:41
93	Molarity	09008.mp3	0:37:34
94	The Dilution Equation	09009.mp3	0:42:50
95	The Importance of Concentration in Chemistry	09010.mp3	0:45:11
96	Using Concentration in Stoichiometry	09011.mp3	0:48:43
97	Acid-Base Titrations	09012.mp3	0:52:43

Track	Module 10	Filename	Start Time
98	How Solutes Dissolve in Solvents	10001.mp3	0:00:00
99	Solubility	10002.mp3	0:16:04
100	Energy Changes That Occur When Making a Solution	10003.mp3	0:26:07
101	Applying Stoichiometry to Solutions	10004.mp3	0:30:23
102	Molality	10005.mp3	0:33:03
103	Freezing-Point Depression	10006.mp3	0:36:25
104	Boiling-Point Elevation	10007.mp3	0:44:22

Track	Module 11	Filename	Start Time
105	The Definition of Pressure	11001.mp3	0:00:00
106	Boyle's Law	11002.mp3	0:06:27
107	Charles's Law	11003.mp3	0:11:07
108	The Combined Gas Law	11004.mp3	0:26:57
109	Ideal Gases	11005.mp3	0:32:32
110	Dalton's Law of Partial Pressures	11006.mp3	0:35:49
111	Vapor Pressure	11007.mp3	0:38:10
112	An Alternative Statement of Dalton's Law	11008.mp3	0:44:53
113	The Ideal Gas Law	11009.mp3	0:48:50
114	Using the Ideal Gas Law in Stoichiometry	11010.mp3	0:52:29

Track	Module 12	Filename	Start Time
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115	Energy and Heat	12001.mp3	0:00:00
116	The First Law of Thermodynamics	12002.mp3	0:06:06
117	Units for Measuring Heat and Energy	12003.mp3	0:08:31
118	The Calorie Unit	12004.mp3	0:12:24
119	Measuring Heat	12005.mp3	0:18:07
120	Calorimetry	12006.mp3	0:26:19

Track	Module 13	Filename	Start Time
121	Enthalpy	13001.mp3	0:00:00
122	Determining Change in Enthalpy for a Chemical Reaction by E	13002.mp3	0:12:43
123	Determining the Change in Enthalpy of a Chemical Reaction U	13003.mp3	0:14:36
124	Hess's Law	13004.mp3	0:25:11
125	Applying Enthalpy to Stoichiometry	13005.mp3	0:39:25
126	Energy Diagrams	13006.mp3	0:41:23
127	The Second Law of Thermodynamics	13007.mp3	0:48:51
128	The Proper Application of the Second Law of Thermodynamik	13008.mp3	1:00:56
129	Gibbs Free Energy	13009.mp3	1:06:59

Track	Module 14	Filename	Start Time
130	Reaction Kinetics	14001.mp3	0:00:00
131	Factors That Affect the Kinetics of a Chemical Reaction	14002.mp3	0:05:28
132	The Rate Equation	14003.mp3	0:15:28
133	Using Experiments to Determine the Details of the Rate Equa	14004.mp3	0:20:49
134	Rate Orders	14005.mp3	0:27:09
135	Using Rate Equations	14006.mp3	0:30:24
136	Temperature Dependence in the Rate Equation	14007.mp3	0:37:24
	Catalysts and Reaction Rate	14008.mp3	0:42:08

Track	Module 15	Filename	Start Time
137	The Definition of Chemical Equilibrium	15001.mp3	0:00:00
138	The Equilibrium Constant	15002.mp3	0:09:58
139	A Few More Details about the Equilibrium Constant	15003.mp3	0:19:58
140	Using the Equilibrium Constant to Predict the Progress of a R	15004.mp3	0:24:58
141	Le Chatelier's Principle	15005.mp3	0:27:50
142	Pressure and Le Chatelier's Principle	15006.mp3	0:36:22
143	Temperature and Le Chatelier's Principle	15007.mp3	0:40:39
144	Acid-Base Equilibria	15008.mp3	0:45:43
145	The pH Scale	15009.mp3	0:54:45
146	Acid Rain	15010.mp3	0:59:09

Track	Module 16	Filename	Start Time
147	Oxidation Numbers	16001.mp3	0:00:00
148	Determining Oxidation Numbers	16002.mp3	0:06:34
149	Oxidation and Reduction	16003.mp3	0:12:44
150	Recognizing Reduction-Oxidation Reactions	16004.mp3	0:15:39
151	An Important Characteristic of Reduction-Oxidation Reaction	16005.mp3	0:19:37
152	How Batteries Work	16006.mp3	0:22:28

153	Real Batteries	16007.mp3	0:34:26
154	Corrosion	16008.mp3	0:43:06
155	Some Final Words	16009.mp3	0:44:32