

## Apologia Physical Science 3rd Edition

MP3 Audio CD	Textbook Section	MP3 Audio CD	Audiobook
<b>Track</b>	<b>Introduction</b>	<b>Filename</b>	<b>Begin Time</b>
1	Introduction- Instructional Support	00001.mp3	0:00:00
2	Introduction- Student Notes	00002.mp3	0:02:29
3	Introduction- Welcome	00003.mp3	0:11:25
4	Introduction- Dear Physical Science Student	00004.mp3	0:14:31
<b>Track</b>	<b>Module 1</b>	<b>Filename</b>	<b>Begin Time</b>
5	Introduction	01001.mp3	0:00:00
6	What is Science	01002.mp3	0:02:10
7	Science and Technology	01003.mp3	0:03:45
8	What is Physical Science	01004.mp3	0:05:00
9	The Scientific Process	01005.mp3	0:08:07
10	Making Observations	01006.mp3	0:09:15
11	Forming Hypotheses	01007.mp3	0:14:54
12	Testing Hypotheses	01008.mp3	0:17:14
13	Analyzing Data	01009.mp3	0:25:38
14	Drawing Conclusions	01010.mp3	0:26:46
15	Scientific Theories and Laws	01011.mp3	0:28:29
16	Science Does Not Prove	01012.mp3	0:32:57
17	When the Scientific Method Isn't Possible	01013.mp3	0:34:27
18	Measuring and Manipulating Data	01014.mp3	0:39:25
19	The Metric System	01015.mp3	0:42:22
20	Converting Units	01016.mp3	0:53:52
21	Organizing and Presenting Scientific Data	01017.mp3	1:00:59
22	Data Tables	01018.mp3	1:01:34
23	Analyzing Data with Graphs	01019.mp3	1:04:29
24	Summing Up	01020.mp3	1:10:55
<b>Track</b>	<b>Module 2</b>	<b>Filename</b>	<b>Begin Time</b>
25	Introduction	02001.mp3	0:00:00
26	Classifying Matter	02002.mp3	0:02:25
27	Pure Substances and Mixtures	02003.mp3	0:05:47
28	Solids, Liquids, and Gases	02004.mp3	0:15:47
29	Kinetic Theory of Matter	02005.mp3	0:21:32
30	Metals and Nonmetals	02006.mp3	0:31:24
31	Properties of Matter	02007.mp3	0:32:23
32	Physical Properties	02008.mp3	0:32:55
33	Chemical Properties	02009.mp3	0:43:17
34	Changes in Matter	02010.mp3	0:46:57
35	Physical Changes	02011.mp3	0:47:31
36	Chemical Changes	02012.mp3	0:58:03
37	Summing Up	02013.mp3	1:04:26
<b>Track</b>	<b>Module 3</b>	<b>Filename</b>	<b>Begin Time</b>

38	Introduction	03001.mp3	0:00:00
39	A History of the Atom	03002.mp3	0:02:37
40	Ancient Atomic Models	03003.mp3	0:05:05
41	Dalton's Atomic Theory	03004.mp3	0:07:53
42	Thomson's Atomic Model	03005.mp3	0:14:38
43	Rutherford's Atomic Model	03006.mp3	0:19:20
44	The Structure of Atoms	03007.mp3	0:25:47
45	Atomic Number and Mass Number	03008.mp3	0:32:36
46	Isotopes	03009.mp3	0:36:42
47	Modern Atomic Theory	03010.mp3	0:41:02
48	Bohr's Atomic Model	03011.mp3	0:41:44
49	The Electron Cloud or the Quantum-Mechanical Model	03012.mp3	0:45:52
50	Organizing Elements: The Periodic Table	03013.mp3	0:55:41
51	Mendeleev's Periodic Table	03014.mp3	0:56:39
52	Modern Periodic Table	03015.mp3	0:59:41
53	Representative Groups	03016.mp3	1:01:44
54	The Alkali Metals	03017.mp3	1:04:31
55	The Alkaline Earth Metals	03018.mp3	1:07:02
56	The Boron Group	03019.mp3	1:08:50
57	The Carbon Group	03020.mp3	1:10:22
58	The Nitrogen Group	03021.mp3	1:11:47
59	The Oxygen Group	03022.mp3	1:13:18
60	The Halogens	03023.mp3	1:14:39
61	The Noble Gases	03024.mp3	1:16:13
62	Summing Up	03025.mp3	1:18:29

Track	Module 4	Filename	Begin Time
63	Introduction	04001.mp3	0:00:00
64	A Model for Chemical Changes	04002.mp3	0:01:51
65	Chemical Formulas	04003.mp3	0:02:32
66	Chemical Equations	04004.mp3	0:05:18
67	Types of Chemical Bonding	04005.mp3	0:13:58
68	Ionic Bonds	04006.mp3	0:16:09
69	Covalent Bonds	04007.mp3	0:27:25
70	Multiple Covalent Bonds	04008.mp3	0:31:08
71	Other Types of Bonds	04009.mp3	0:40:53
72	The Wonder of Water	04010.mp3	0:43:42
73	Solubility	04011.mp3	0:44:21
74	Hydrogen Bonding and the Phases of Water	04012.mp3	0:47:44
75	Cohesion, Adhesion, and Surface Tension	04013.mp3	0:55:21
76	Summing Up	04014.mp3	1:03:08

Track	Module 5	Filename	Begin Time
77	Introduction	05001.mp3	0:00:00
78	Naming Compounds and Writing Formulas	05002.mp3	0:01:46
79	Describing Ionic Compounds	05003.mp3	0:02:55
80	Describing Molecular Compounds	05004.mp3	0:12:41

81	Types of Reactions	05005.mp3	0:18:38
82	Synthesis	05006.mp3	0:19:34
83	Decomposition	05007.mp3	0:22:03
84	Single Replacement	05008.mp3	0:25:41
85	Double Replacement	05009.mp3	0:28:27
86	Combustion	05010.mp3	0:30:34
87	Energy Changes in Reactions	05011.mp3	0:35:46
88	Energy in Chemical Bonds	05012.mp3	0:36:44
89	Exothermic Reactions	05013.mp3	0:45:11
90	Endothermic Reactions	05014.mp3	0:48:15
91	Summing Up	05015.mp3	0:55:53

Track	Module 6	Filename	Begin Time
92	Introduction	06001.mp3	0:00:00
93	Distance and Displacement	06002.mp3	0:02:16
94	A Frame of Reference	06003.mp3	0:03:20
95	Measuring Distance	06004.mp3	0:07:35
96	Adding Displacement	06005.mp3	0:09:25
97	Speed and Velocity	06006.mp3	0:14:49
98	Speed	06007.mp3	0:16:05
99	Graphing Speed	06008.mp3	0:20:25
100	Velocity	06009.mp3	0:27:20
101	Acceleration	06010.mp3	0:34:42
102	Graphing Acceleration	06011.mp3	0:47:51
103	Summing Up	06012.mp3	0:51:02

Track	Module 7	Filename	Begin Time
104	Introduction	07001.mp3	0:00:00
105	Forces	07002.mp3	0:01:37
106	Combining Forces	07003.mp3	0:03:43
107	Friction	07004.mp3	0:06:27
108	Gravity	07005.mp3	0:12:23
109	Newton's Laws of Motion	07006.mp3	0:18:56
110	A Brief History	07007.mp3	0:20:00
111	Newton's First Law of Motion	07008.mp3	0:29:32
112	Newton's Second Law of Motion	07009.mp3	0:39:12
113	Newton's Third Law	07010.mp3	0:46:27
114	Fundamental Forces	07011.mp3	0:52:16
115	Electromagnetic Forces	07012.mp3	0:52:52
116	Nuclear Forces	07013.mp3	0:55:48
117	Gravitational Forces	07014.mp3	0:58:56
118	Summing Up	07015.mp3	1:09:00

Track	Module 8	Filename	Begin Time
119	Introduction	08001.mp3	0:00:00
120	Energy	08002.mp3	0:01:46
121	Types of Energy	08003.mp3	0:03:29

122	Gravitational Potential Energy	08004.mp3	0:08:58
123	Elastic Potential Energy	08005.mp3	0:10:45
124	Forms of Energy	08006.mp3	0:16:15
125	Conservation of Energy	08007.mp3	0:24:44
126	Energy and Work	08008.mp3	0:35:21
127	Calculating Work	08009.mp3	0:38:46
128	Power	08010.mp3	0:39:22
129	Calculating Power	08011.mp3	0:41:06
130	Work and Machines	08012.mp3	0:44:46
131	Work Input and Work Output	08013.mp3	0:47:04
132	Mechanical Advantage	08014.mp3	0:48:46
133	Simple Machines	08015.mp3	0:54:35
134	Summing Up	08016.mp3	0:57:33

Track	Module 9	Filename	Begin Time
135	Introduction	09001.mp3	0:00:00
136	Mechanical Waves	09002.mp3	0:02:23
137	Types of Mechanical Waves	09003.mp3	0:04:09
138	Properties of Waves	09004.mp3	0:10:58
139	Amplitude	09005.mp3	0:11:40
140	Frequency and Period	09006.mp3	0:13:39
141	Wavelength	09007.mp3	0:15:25
142	Wave Speed	09008.mp3	0:17:04
143	Sound	09009.mp3	0:18:51
144	Hearing	09010.mp3	0:20:30
145	Intensity and Loudness	09011.mp3	0:31:16
146	Wavelength, Frequency, and Pitch	09012.mp3	0:39:00
147	The Doppler Effect	09013.mp3	0:45:59
148	Uses of Sound Waves	09014.mp3	0:48:29
149	Summing Up	09015.mp3	0:55:57

Track	Module 10	Filename	Begin Time
150	Introduction	10001.mp3	0:00:00
151	Electromagnetic Waves	10002.mp3	0:01:55
152	The Speed of Electromagnetic Waves—Light	10003.mp3	0:06:40
153	Wavelength and Frequency	10004.mp3	0:09:21
154	The Dual Nature of Light	10005.mp3	0:10:25
155	The Electromagnetic Spectrum	10006.mp3	0:19:51
156	Radio Waves	10007.mp3	0:20:36
157	Microwaves	10008.mp3	0:21:55
158	Infrared Light	10009.mp3	0:23:26
159	Visible Light	10010.mp3	0:25:12
160	Ultraviolet Light	10011.mp3	0:29:22
161	X-Rays	10012.mp3	0:32:37
162	Gamma Rays	10013.mp3	0:33:51
163	The Behavior of Light	10014.mp3	0:35:15
164	Interactions of Light	10015.mp3	0:36:58

165	Your Eyes and Color	10016.mp3	0:54:29
166	Lenses	10017.mp3	0:55:03
167	The Human Eye	10018.mp3	0:58:20
168	Adding and Subtracting Colors	10019.mp3	1:08:25
169	Summing Up	10020.mp3	1:15:07

Track	Module 11	Filename	Begin Time
170	Introduction	11001.mp3	0:00:00
171	A Detailed Look at the Electromagnetic Force	11002.mp3	0:02:03
172	James Clerk Maxwell	11003.mp3	0:02:46
173	The Electromagnetic Force	11004.mp3	0:06:08
174	Photons and the Electromagnetic Force	11005.mp3	0:11:47
175	Electric Charge	11006.mp3	0:16:53
176	Electric Field	11007.mp3	0:17:35
177	Static Electricity and Charging Objects	11008.mp3	0:18:48
178	Electrical Circuits	11009.mp3	0:27:03
179	Voltage	11010.mp3	0:28:39
180	Electrical Current	11011.mp3	0:29:58
181	Conductors and Insulators	11012.mp3	0:37:56
182	Resistance	11013.mp3	0:38:53
183	Switches and Circuits	11014.mp3	0:44:23
184	Series and Parallel Circuits	11015.mp3	0:47:10
185	Magnetism	11016.mp3	0:50:12
186	Magnetic Materials	11017.mp3	0:51:36
187	Magnets and Magnetic Forces	11018.mp3	0:57:00
188	More About Magnetic Fields	11019.mp3	1:00:24
189	Summing Up	11020.mp3	1:07:40

Track	Module 12	Filename	Begin Time
190	Introduction	12001.mp3	0:00:00
191	Earth's Structure	12002.mp3	0:02:19
192	The Crust	12003.mp3	0:05:19
193	The Mantle	12004.mp3	0:06:48
194	The Core	12005.mp3	0:11:27
195	Rocks and Minerals	12006.mp3	0:16:19
196	Rocks	12007.mp3	0:17:00
197	Minerals	12008.mp3	0:18:07
198	Processes of the Lithosphere	12009.mp3	0:21:28
199	The Rock Cycle	12010.mp3	0:22:04
200	Water	12011.mp3	0:24:28
201	The Hydrosphere and the Hydrologic (Water) Cycle	12012.mp3	0:26:07
202	Weathering	12013.mp3	0:36:33
203	Erosion Shapes the Land	12014.mp3	0:42:46
204	Summing Up	12015.mp3	0:55:49

Track	Module 13	Filename	Begin Time
205	Introduction	13001.mp3	0:00:00

206	Our Atmosphere	13002.mp3	0:01:47
207	Carbon Dioxide in the Air	13003.mp3	0:05:43
208	Atmospheric Pressure	13004.mp3	0:10:52
209	Energy and Atmosphere	13005.mp3	0:26:21
210	What is Temperature?	13006.mp3	0:29:47
211	Layers of the Atmosphere	13007.mp3	0:36:17
212	The Temperature Gradient in the Atmosphere	13008.mp3	0:36:42
213	The Ionosphere	13009.mp3	0:44:09
214	Beyond Our Atmosphere	13010.mp3	0:47:57
215	Summing Up	13011.mp3	0:53:06

Track	Module 14	Filename	Begin Time
216	Introduction	14001.mp3	0:00:00
217	Chemistry and Biology	14002.mp3	0:02:15
218	Carbon Chemistry	14003.mp3	0:03:46
219	Hydrocarbons	14004.mp3	0:04:18
220	Fossil Fuels	14005.mp3	0:09:02
221	Biochemistry	14006.mp3	0:13:51
222	Biochemical Compounds	14007.mp3	0:14:25
223	Chemical Reactions in Cells	14008.mp3	0:16:32
224	Physics and Life	14009.mp3	0:23:57
225	Physics at the Park	14010.mp3	0:24:51
226	Transportation and Physics	14011.mp3	0:27:15
227	Physics and Forensics	14012.mp3	0:29:59
228	Physics and Health	14013.mp3	0:31:14
229	Summing Up	14014.mp3	0:34:17

Track	Module 15	Filename	Begin Time
230	Introduction	15001.mp3	0:00:00
231	Conducting Research	15002.mp3	0:02:41
232	Getting Started	15003.mp3	0:03:53
233	Brainstorming and Narrowing	15004.mp3	0:05:04
234	Finding Credible Sources	15005.mp3	0:05:53
235	Research	15006.mp3	0:08:41
236	Sharing Your Research	15007.mp3	0:09:52
237	Alternate Research Presentations	15008.mp3	0:12:18
238	Your Turn To Research	15009.mp3	0:13:12
239	Summing Up	15010.mp3	0:14:44

Track	Final Letter from the Author	Filename	Begin Time
240	Final Letter from the Author	16001.mp3	0:00:00