Apologia Biology 3rd Edition

MP3 Audio CD 1 Track	Textbook Section	MP3 Audio CD Filename	Audiobook Start Time
	Module 0		
1	Instructional Support	00001.mp3	0:00:00
2	Dear Bio Student	00002.mp3	0:02:12
3	Student Notes	00003.mp3	0:05:11
4	Welcome	00004.mp3	0:14:04
	Module 1		
5	What You Will Learn	01001.mp3	0:00:00
6	The Process of Science	01002.mp3	0:02:34
7	What Scientists Do	01003.mp3	0:04:22
8	Scientific Method in Action	01004.mp3	0:15:15
9	The Limitations of Science	01005.mp3	0:21:21
10	The Study of Life	01006.mp3	0:42:06
11	Cells and Life	01007.mp3	0:43:25
12	Growth and Development	01008.mp3	0:44:37
13	Metabolism and Energy	01009.mp3	0:45:39
14	Homeostasis	01010.mp3	0:52:45
15	Sensing and Responding to Stimuli	01011.mp3	0:54:06
16	DNA and Reproduction	01012.mp3	0:56:15
17	Tools of Biology	01013.mp3	1:04:00
18	A Common Measurement System	01014.mp3	1:05:01
19	Tables and Graphs	01015.mp3	1:06:23
20	Microscopes	01016.mp3	1:08:11
21	Safety in Biology	01017.mp3	1:14:55
	Module 2		
22	What You Will Learn	02001.mp3	0:00:00
23	The Composition of Matter	02002.mp3	0:02:02
24	Atoms: the Basic Building Blocks of Matter	02003.mp3	0:02:31
25	Elements	02004.mp3	0:09:50
26	Isotopes	02005.mp3	0:12:45
27	Molecules and Compounds	02006.mp3	0:16:09
28	Chemical Bonds	02007.mp3	0:24:21
29	The Properties of Water	02008.mp3	0:32:33
30	The Structure of Water	02009.mp3	0:33:08
31	Life-Supporting Properties of Water	02010.mp3	0:35:10
32	Carbon Compounds	02011.mp3	0:48:13
33	Lipids	02012.mp3	1:08:53
34	Proteins and Enzymes	02013.mp3	1:16:16
35	Nucleic Acids	02014.mp3	1:37:14
	Module 3		
36	What You Will Learn	03001.mp3	0:00:00
37	Introduction	03002.mp3	0:02:49

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38	Energy and Life	03003.mp3	0:06:47
39	Producers, Consumers, and Decomposers	03004.mp3	0:07:59
40	Food Chains, Food Webs, and Trophic Levels	03005.mp3	0:10:35
41	Energy Moves Through Trophic Levels	03006.mp3	0:14:22
42	The Biosphere	03007.mp3	0:25:53
43	The Water Cycle	03008.mp3	0:28:31
44	The Carbon Cycle	03009.mp3	0:34:01
45	The Oxygen Cycle	03010.mp3	0:56:36
46	The Nitrogen Cycle	03011.mp3	1:02:43
47	The Phosphorus Cycle	03012.mp3	1:09:06
48	Ecosystems and Biomes	03013.mp3	1:11:57
49	Factors that Affect Ecosystems	03014.mp3	1:16:07
50	Major Biomes	03015.mp3	1:21:32
51	Populations and Communities	03016.mp3	1:36:43
52	Community Interactions—Competition	03017.mp3	1:37:31
53	Community Interactions—Predation	03018.mp3	1:45:40
54	Community Interactions—Symbiosis	03019.mp3	1:49:09
55	Community Disturbances	03020.mp3	1:52:06
56	Characteristics of Populations	03021.mp3	1:58:48

Track	**Module 4**	Filename	Start Time
57	What You Will Learn	04001.mp3	0:00:00
58	Introduction	04002.mp3	0:02:01
59	History of Cell theory	04003.mp3	0:03:13
60	The Cell theory	04004.mp3	0:06:21
61	Characteristics of Cells	04005.mp3	0:08:26
62	Cell Structure	04006.mp3	0:13:27
63	Structures That All Cells Have in Common	04007.mp3	0:17:53
64	Organelles of Eukaryotic Cells	04008.mp3	0:22:40
65	A Closer Look at Membranes	04009.mp3	0:48:57
66	Movement Through Membranes	04010.mp3	0:58:02

Track	**Module 5**	Filename	Start Time
67	What You Will Learn	05001.mp3	0:00:00
68	Introduction	05002.mp3	0:02:10
69	ATP: the Energy Currency of Cells	05003.mp3	0:04:50
70	Photosynthesis: Making Energy-Packed Food	05004.mp3	0:11:07
71	The Light Reactions	05005.mp3	0:21:59
72	The Calvin Cycle	05006.mp3	0:28:46
73	Cellular Respiration: Making ATP	05007.mp3	0:37:13
74	Mitochondrial Design	05008.mp3	0:43:26
75	The Stages of Cellular Respiration	05009.mp3	0:44:39
76	Fermentation	05010.mp3	1:02:06

Track	**Module 6**	Filename	Start Time
77	What You Will Learn	06001.mp3	0:00:00
78	Introduction	06002.mp3	0:02:13

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79	DNA, Genes, and Chromosomes	06003.mp3	0:08:16
80	A Brief History of the Discovery of DNA	06004.mp3	0:09:44
81	Genes and Chromosomes	06005.mp3	0:12:46
82	DNA Replication	06006.mp3	0:17:44
83	Protein Synthesis	06007.mp3	0:23:45
84	Protein Synthesis Part 1: Transcription—DNA to RNA	06008.mp3	0:28:29
85	Protein Synthesis Part 2: Translation—RNA to Protein	06009.mp3	0:38:57
86	Cell Cycle and Cellular Reproduction	06010.mp3	0:55:06
87	Mitosis	06011.mp3	1:00:08
88	Meiosis	06012.mp3	1:11:46
89	The Process of Meiosis	06013.mp3	1:19:58

Track	**Module 7**	Filename	Start Time
90	What You Will Learn	07001.mp3	0:00:00
91	Introduction	07002.mp3	0:02:02
92	Mendelian Genetics	07003.mp3	0:02:58
93	Mendel's Experiments	07004.mp3	0:07:49
94	Modern Terminology	07005.mp3	0:20:20
95	Punnett Squares	07006.mp3	0:31:06
96	Testcross	07007.mp3	0:35:28
97	Pedigrees	07008.mp3	0:37:26
98	More Complex Crosses	07009.mp3	0:45:06
99	Inheritance Patterns	07010.mp3	0:56:38
100	Sex-Linked Genetic Traits	07011.mp3	0:56:58
101	Non-Mendelian Inheritance Patterns	07012.mp3	1:04:57
102	Human Genetics	07013.mp3	1:18:12
103	Autosomal Disorders	07014.mp3	1:18:55
104	Sex-Linked Disorders	07015.mp3	1:22:33
105	Disorders Caused by Damaged Genes	07016.mp3	1:23:31
106	Disorders Caused by Damaged Chromosomes	07017.mp3	1:33:32
107	Disorders Due to Change in Chromosome Number	07018.mp3	1:35:34
108	Gene Technologies	07019.mp3	1:38:55
109	Restriction Enzymes	07020.mp3	1:41:56
110	Gel Electrophoresis and DNA Profiling	07021.mp3	1:44:21
111	Polymerase Chain Reaction	07022.mp3	1:47:31
112	Genetic Engineering and Recombinant DNA	07023.mp3	1:48:48
113	Summing Up	07024.mp3	1:56:33

Track	**Module 8**	Filename	Start Time
114	What You Will Learn	08001.mp3	0:00:00
115	Introduction	08002.mp3	0:03:11
116	Charles Darwin	08003.mp3	0:07:17
117	Darwin's theory	08004.mp3	0:14:37
118	Microevolution and Macroevolution	08005.mp3	0:26:55
119	The Geological Column and the Fossil Record	08006.mp3	0:48:57
120	A Detailed Look at the Fossil Record Evidence	08007.mp3	1:01:00
121	The Cambrian Explosion	08008.mp3	1:20:16

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122	Punctuated Equilibrium and Gradualism	08009.mp3	1:27:44
123	Structural Homology	08010.mp3	1:34:50
124	Molecular Biology	08011.mp3	1:40:51
125	Why Do So Many Scientists Believe in Macroevolution?	08012.mp3	1:55:38

MP3 Audio

CD 2

Track	**Module 9**	Filename	Start Time
1	What You Will Learn	09001.mp3	0:00:00
2	Introduction	09002.mp3	0:02:24
3	Biological Classification	09003.mp3	0:04:03
4	Five Kingdoms or Six Kingdoms?	09004.mp3	0:11:57
5	Overview of Three Domains and Four Kingdoms	09005.mp3	0:18:53
6	Classifying Phylum, Class, Order, Family, Genus, and Species using Biol	09006.mp3	0:25:05
7	Archae and Bacteria	09007.mp3	0:32:26
8	Archae	09008.mp3	0:34:52
9	Bacteria	09009.mp3	0:36:14
10	Viruses	09010.mp3	1:29:10
11	Viral Structure	09011.mp3	1:31:09
12	How Viruses Infect	09012.mp3	1:33:34
13	Defenses Against Viruses	09013.mp3	1:38:35

Track	**Module 10**	Filename	Start Time
14	What You Will Learn	10001.mp3	0:00:00
15	Introduction to Protists	10002.mp3	0:02:01
16	General Characteristics of Protists	10003.mp3	0:03:09
17	Classifying Protists	10004.mp3	0:04:42
18	Animal-Like Protists—The Protozoans	10005.mp3	0:05:41
19	Fungus-Like Protists	10006.mp3	0:25:58
20	Plant-Like Protists—Euglena and Algae	10007.mp3	0:33:46
21	Introduction to Fungi	10008.mp3	0:57:49
22	General Characteristics of Fungi	10009.mp3	0:59:51
23	Structure and Function	10010.mp3	1:01:53
24	Reproduction in Fungi	10011.mp3	1:05:46
25	How Fungi Spread	10012.mp3	1:08:20
26	Classifying Fungi	10013.mp3	1:09:55
27	The Common Molds—Zygote Fungi	10014.mp3	1:11:51
28	Sac Fungi	10015.mp3	1:16:03
29	Club Fungi	10016.mp3	1:22:35
30	Chytrids	10017.mp3	1:34:21
31	Imperfect Fungi	10018.mp3	1:35:26
32	How Fungi Impact Life	10019.mp3	1:38:57
33	Decomposers	10020.mp3	1:39:23
34	Symbiotic Relationships	10021.mp3	1:40:19
35	Pathogens	10022.mp3	1:43:05
36	Summing Up	10023.mp3	1:45:11

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Track	Module 11	Filename	Start Time
37	What You Will Learn	11001.mp3	0:00:00
38	Introduction to Plants	11002.mp3	0:02:03
39	Classifying Plants	11003.mp3	0:05:14
40	Nonvascular Plants—Bryophytes	11004.mp3	0:07:18
41	Seedless Vascular Plants—Pteridophytes	11005.mp3	0:17:59
42	Seed Plants	11006.mp3	0:24:53
43	A Closer Look at the Angiosperm Life Cycle	11007.mp3	0:39:08
44	The Parts of a Flower	11008.mp3	0:39:39
45	Reproduction in Angiosperms—Part 1: Pollen and Embryo Sacs	11009.mp3	0:47:56
46	Reproduction in Angiosperms—Part 2: Pollination	11010.mp3	0:52:32
47	Reproduction in Angiosperms—Part 3: Fertilization	11011.mp3	1:01:15
48	Seeds and Fruits	11012.mp3	1:04:06
49	Germination and Early Growth	11013.mp3	1:15:05
50	Vegetative Reproduction	11014.mp3	1:19:45

Track	Module 12	Filename	Start Time
51	What You Will Learn	12001.mp3	0:00:00
52	Introduction to Plant Anatomy and Physiology	12002.mp3	0:01:42
53	Plant Structure	12003.mp3	0:03:54
54	Plant Tissue	12004.mp3	0:04:51
55	Roots	12005.mp3	0:08:49
56	Stems	12006.mp3	0:18:42
57	Leaves	12007.mp3	0:32:27
58	Leaf Color	12008.mp3	0:42:24
59	Transporting Water and Nutrients	12009.mp3	0:51:02
60	How a Plant Depends on Water	12010.mp3	0:51:53
61	Water Absorption in Plants	12011.mp3	0:57:48
62	Water Transport in Plants	12012.mp3	1:01:40
63	Movement of Substances in Phloem	12013.mp3	1:08:01
64	Plant Growth, Hormones, and Responses	12014.mp3	1:11:53
65	Auxins and Plant Responses	12015.mp3	1:13:39
66	Cytokinins	12016.mp3	1:19:40
67	Gibberellins	12017.mp3	1:21:38
68	Abscisic Acid	12018.mp3	1:22:25
69	Ethylene	12019.mp3	1:23:17
70	Florigen	12020.mp3	1:24:09
71	Unique Designs	12021.mp3	1:26:53
72	Freshwater Plants	12022.mp3	1:27:22
73	Saltwater Plants	12023.mp3	1:28:01
74	Desert Plants	12024.mp3	1:28:41
75	Insectivorous Plants	12025.mp3	1:30:04

Track	Module 13	Filename	Start Time
76	What You Will Learn	13001.mp3	0:00:00
77	Introduction	13002.mp3	0:01:39
78	Characteristics of Animals	13003.mp3	0:02:24

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79	Invertebrates and Vertebrates	13004.mp3	0:03:32
80	Symmetry	13005.mp3	0:05:12
81	Diversity of Invertebrates	13006.mp3	0:09:29
82	Sponges—Phylum Porifera	13007.mp3	0:10:00
83	Phylum Cnidaria	13008.mp3	0:19:25
84	Phylum Annelida	13009.mp3	0:36:59
85	Phylum Platyhelminthes: the Planarian	13010.mp3	0:55:32
86	Phylum Nematoda	13011.mp3	1:00:44
87	Phylum Mollusca	13012.mp3	1:04:06
88	Summing Up the Invertebrates	13013.mp3	1:10:54

Track	**Module 14**	Filename	Start Time
89	What You Will Learn	14001.mp3	0:00:00
90	Introduction	14002.mp3	0:01:43
91	A Closer Look at Arthropods	14003.mp3	0:02:31
92	Common Characteristics	14004.mp3	0:02:49
93	The Diversity of Arthropods	14005.mp3	0:14:00
94	Class Crustacea: the Crayfish	14006.mp3	0:14:29
95	Class Arachnida	14007.mp3	0:37:55
96	Classes Chilopoda and Diplopoda	14008.mp3	0:50:45
97	Class Insecta	14009.mp3	0:53:10
98	The Basic Anatomy of an Insect	14010.mp3	0:56:34
99	A Few Orders in Class Insecta	14011.mp3	1:06:06
100	A Bit About Echinoderms	14012.mp3	1:19:05
101	The Unique Design of Echinoderms	14013.mp3	1:20:04
102	Diversity of Echinoderms	14014.mp3	1:23:03
103	Summing Up	14015.mp3	1:26:28

Track	**Module 15**	Filename	Start Time
104	What You Will Learn	15001.mp3	0:00:00
105	General Characteristics of Chordates	15002.mp3	0:01:42
106	Nonvertebrate Chordates	15003.mp3	0:05:39
107	Tunicates	15004.mp3	0:06:16
108	Lancelets	15005.mp3	0:07:54
109	General Characteristics of Vertebrates	15006.mp3	0:09:26
110	Internal Support and Protection	15007.mp3	0:10:12
111	Circulatory System	15008.mp3	0:11:39
112	Nervous System	15009.mp3	0:14:14
113	Reproduction	15010.mp3	0:19:17
114	Diversity of Vertebrates—Fishes	15011.mp3	0:22:42
115	Jawless Fishes	15012.mp3	0:24:20
116	Cartilaginous Fishes	15013.mp3	0:27:17
117	Bony Fishes	15014.mp3	0:38:00
118	Diversity of Vertebrates—Amphibians	15015.mp3	1:03:21
119	Characteristics of Amphibians	15016.mp3	1:05:02
120	Groups of Amphibians	15017.mp3	1:09:52
121	Diversity of Vertebrates—Reptiles	15018.mp3	1:14:02

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122	Characteristics of Reptiles	15019.mp3	1:14:31
123	Classification of Reptiles	15020.mp3	1:22:30

Track	**Module 16**	Filename	Start Time
124	What You Will Learn	16001.mp3	0:00:00
125	Introduction	16002.mp3	0:01:44
126	Birds	16003.mp3	0:02:19
127	Characteristics of Birds	16004.mp3	0:02:43
128	Classification in Class Aves	16005.mp3	0:20:00
129	Mammals	16006.mp3	0:28:04
130	Characteristics of Mammals	16007.mp3	0:28:50
131	Classification in Class Mammalia	16008.mp3	0:36:51
132	Animal Behavior	16009.mp3	0:57:04
133	Innate Behavior	16010.mp3	0:58:48
134	Learned Behavior	16011.mp3	1:06:26
135	Social Behaviors	16012.mp3	1:12:18
136	Summing it All Up	16013.mp3	1:22:10
137	Dear Bio Student	17001.mp3	1:23:31