

Apologia Astronomy 2nd Ed

Audio

MP3 CD Textbook Section

Audio MP3 CD Audiobook

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1	Introduction	00001.mp3	0:00:00

Track	Lesson 1	Filename	Start Time
2	What Is Astronomy?	01001.mp3	0:00:00
3	Welcome	01002.mp3	0:00:42
4	The Night Sky	01003.mp3	0:02:26
5	Think About This	01004.mp3	0:03:08
6	Stars and Planets	01005.mp3	0:03:52
7	Clocks, Calendars, and Seasons	01006.mp3	0:04:36
8	Think About This	01007.mp3	0:06:24
9	Navigation	01008.mp3	0:07:18
10	Gravity	01009.mp3	0:08:58
11	Think About This	01010.mp3	0:10:59
12	Our Solar System	01011.mp3	0:11:31
13	Activity 1.1: Create Your Own Mnemonic	01012.mp3	0:12:27
14	Narration Prompt Pg. 19	01013.mp3	0:12:39
15	Astronomers and Astronauts	01014.mp3	0:12:51
16	Satellites	01015.mp3	0:15:41
17	Activity 1.2: Build a Model Solar System	01016.mp3	0:17:17
18	What Do You Remember?	01017.mp3	0:17:31

Track	Lesson 2	Filename	Start Time
19	The Sun	02001.mp3	0:00:00
20	The Star of Stars	02002.mp3	0:00:54
21	Activity 2.1: Understanding Distance and Size	02003.mp3	0:02:40
22	92956050	02004.mp3	0:02:53
23	Don't Stare!	02005.mp3	0:05:15
24	Activity 2.2: Use a Magnifying Glass to Focus Heat	02006.mp3	0:06:59
25	Discussion Pg. 29	02007.mp3	0:07:11
26	Think About This	02008.mp3	0:07:52
27	Activity 2.3: Give a Speech to Teach Others About the Sun	02009.mp3	0:08:40
28	Revolve and Rotate (1/2)	02010.mp3	0:08:54
29	Activity 2.4a: Take a Walk Around the Sun-Revolving	02011.mp3	0:10:24
30	Think About This	02012.mp3	0:10:36
31	Activity 2.4b: Take a Walk Around the Sun-Rotating	02013.mp3	0:11:26
32	Revolve and Rotate (2/2)	02014.mp3	0:11:40
33	Solar Flares, Auroras, and Sunspots	02015.mp3	0:13:10
34	Think About This	02016.mp3	0:16:54
35	The Color of God's Love (1/2)	02017.mp3	0:18:49
36	Think About This	02018.mp3	0:20:01
37	The Color of God's Love (2/2)	02019.mp3	0:20:29
38	Think About This	02020.mp3	0:25:57

39	Solar Eclipse	02021.mp3	0:26:35
40	Activity 2.5: Make a Solar Eclipse	02022.mp3	0:30:17
41	Activity 2.6: Pinhole Eclipse Viewing Box	02023.mp3	0:30:31
42	A Spacecraft to Study the Sun - SOHO	02024.mp3	0:30:45
43	Who Named the Sun	02025.mp3	0:31:37
44	What Do You Remember?	02026.mp3	0:32:13

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45	Mercury	03001.mp3	0:00:00
46	The Planet Closest to the Sun	03002.mp3	0:00:28
47	Rotation and Revolution	03003.mp3	0:03:14
48	Think About This	03004.mp3	0:07:08
49	Features of the Planet Mercury	03005.mp3	0:07:34
50	Think About This	03006.mp3	0:10:14
51	Activity 3.1: Making Craters	03007.mp3	0:10:42
52	A Trip Across the Sun	03008.mp3	0:10:56
53	Who Named Mercury?	03009.mp3	0:12:05
54	How to Find Mercury in the Sky	03010.mp3	0:12:47
55	Spacecraft to Mercury (1/2)	03011.mp3	0:13:43
56	Math It	03012.mp3	0:14:53
57	Spacecraft to Mercury (2/2)	03013.mp3	0:15:35
58	Think About This	03014.mp3	0:16:45
59	Activity 3.2: Make a Model of Mercury	03015.mp3	0:17:21
60	What Do You Remember?	03016.mp3	0:17:33

Track	Lesson 4	Filename	Start Time
61	Venus	04001.mp3	0:00:00
62	Think About This	04002.mp3	0:02:52
63	Activity 4.1: Make Some Lava	04003.mp3	0:03:14
64	Narration Prompt Pg. 56	04004.mp3	0:03:26
65	Too Much Atmosphere	04005.mp3	0:03:40
66	Rotation and Revolution	04006.mp3	0:06:00
67	Not a Twin	04007.mp3	0:08:38
68	Think About This	04008.mp3	0:09:14
69	The Phases of Venus	04009.mp3	0:10:03
70	Who Named Venus	04010.mp3	0:12:27
71	Think About This	04011.mp3	0:12:47
72	Finding Venus in the Sky	04012.mp3	0:13:09
73	Spacecraft to Venus	04013.mp3	0:14:19
74	Understanding Radar	04014.mp3	0:15:55
75	Activity 4.2: Learn How Radar is Used	04015.mp3	0:18:11
76	What Do You Remember?	04016.mp3	0:18:23

Track	Lesson 5	Filename	Start Time
77	Earth	05001.mp3	0:00:00
78	Perfect Design by a Perfect Designer	05002.mp3	0:00:40
79	Perfect Distance	05003.mp3	0:01:42

80	Perfect Mass	05004.mp3	0:02:56
81	Perfect Rotation	05005.mp3	0:07:30
82	Think About This	05006.mp3	0:08:50
83	Perfect Atmosphere	05007.mp3	0:09:34
84	Perfect Tilt (1/4)	05008.mp3	0:14:08
85	Activity 5.1a: Understanding the Seasons	05009.mp3	0:15:38
86	Perfect Tilt (2/4)	05010.mp3	0:15:51
87	Perfect Tilt (3/4)	05011.mp3	0:17:09
88	Activity 5.1b: Understanding the Seasons	05012.mp3	0:19:08
89	Perfect Tilt (4/4)	05013.mp3	0:19:21
90	Perfect Land	05014.mp3	0:22:17
91	Perfect Magnetosphere	05015.mp3	0:24:25
92	Activity 5.2: Make a Compass	05016.mp3	0:26:17
93	Think About This	05017.mp3	0:26:30
94	Who Named Earth	05018.mp3	0:26:58
95	Spacecraft for Studying Earth	05019.mp3	0:27:18
96	Activity 5.3: Create an Advertisement for Earth	05020.mp3	0:28:50
97	What Do You Remember?	05021.mp3	0:29:03

Track	Lesson 6	Filename	Start Time
98	The Moon	06001.mp3	0:00:00
99	Activity 6.1: Understanding How the Moon Reflects Light	06002.mp3	0:02:02
100	The Moon's Phases	06003.mp3	0:02:14
101	Activity 6.2a: Understanding Phases of the Moon; Activity 6.2b: Record t	06004.mp3	0:03:46
102	Think About This	06005.mp3	0:03:58
103	Lunar Eclipse	06006.mp3	0:04:32
104	Lunar Atmosphere	06007.mp3	0:07:20
105	The Moon's Gravity	06008.mp3	0:09:56
106	Think About This	06009.mp3	0:13:39
107	Activity 6.3: Make a Telescope	06010.mp3	0:14:13
108	Who Named the Moon	06011.mp3	0:14:25
109	Spacecraft to the Moon (1/2)	06012.mp3	0:14:51
110	Think About This	06013.mp3	0:17:53
111	Spacecraft to the Moon (2/2)	06014.mp3	0:18:29
112	What Do You Remember?	06015.mp3	0:19:19

Track	Lesson 7	Filename	Start Time
113	Mars	07001.mp3	0:00:00
114	Activity 7.1: Build Olympus Mons	07002.mp3	0:01:10
115	Martian Gravity	07003.mp3	0:01:22
116	Martian Atmosphere	07004.mp3	0:02:28
117	God's Gift of Magnetism	07005.mp3	0:04:46
118	Think About This	07006.mp3	0:06:14
119	Moons	07007.mp3	0:06:52
120	Martian Orbit	07008.mp3	0:08:10
121	Martian Rotation	07009.mp3	0:08:56
122	Moving to Mars	07010.mp3	0:13:22

123	Activity 7.2: Designing a Mars Community	07011.mp3	0:15:25
124	Mars Surface	07012.mp3	0:15:37
125	Liquid Water on Mars?	07013.mp3	0:16:15
126	Finding Mars in the Sky	07014.mp3	0:19:01
127	Who Named Mars	07015.mp3	0:19:31
128	Spacecraft to Mars	07016.mp3	0:19:43
129	Think About This	07017.mp3	0:22:07
130	What Do You Remember?	07018.mp3	0:22:51

Track	Lesson 8	Filename	Start Time
131	Space Rocks	08001.mp3	0:00:00
132	Comets	08002.mp3	0:00:48
133	Think About This	08003.mp3	0:03:28
134	The Coma	08004.mp3	0:04:18
135	A Comet's Orbit (1/2)	08005.mp3	0:06:18
136	Activity 8.1: Watch a Meteor Shower	08006.mp3	0:07:50
137	A Comet's Orbit (2/2)	08007.mp3	0:08:02
138	Famous Comets	08008.mp3	0:09:42
139	How Comets Get Their Official Names	08009.mp3	0:12:52
140	Meteoroids, Meteors, Meteorites	08010.mp3	0:13:17
141	Asteroids	08011.mp3	0:15:29
142	Picture on Pg. 119	08012.mp3	0:17:27
143	Asteroid Belt	08013.mp3	0:18:25
144	Who Names Asteroids	08014.mp3	0:26:41
145	Spacecraft (1/2)	08015.mp3	0:27:19
146	Activity 8.2: Understanding Distances in Our Solar System	08016.mp3	0:27:45
147	Spacecraft (2/2)	08017.mp3	0:27:57
148	Think About This	08018.mp3	0:28:39
149	What Do You Remember?	08019.mp3	0:29:05

Track	Lesson 9	Filename	Start Time
150	Jupiter	09001.mp3	0:00:00
151	Protective Mother	09002.mp3	0:00:30
152	Going to Jupiter	09003.mp3	0:01:56
153	Little Sun	09004.mp3	0:03:30
154	Stormy Skies	09005.mp3	0:04:58
155	Narration Prompt Pg. 128	09006.mp3	0:06:07
156	Activity 9.1: Make a Hurricane Tube	09007.mp3	0:06:23
157	Jupiter's Rings	09008.mp3	0:06:35
158	Rotation and Revolution	09009.mp3	0:07:12
159	Many Moons	09010.mp3	0:08:34
160	Finding Jupiter in the Night Sky	09011.mp3	0:13:20
161	Who Named Jupiter	09012.mp3	0:14:06
162	Spacecraft Galileo	09013.mp3	0:14:22
163	Activity 9.2: Create a Newspaper	09014.mp3	0:17:46
164	What Do You Remember?	09015.mp3	0:17:58

Track	Lesson 10	Filename	Start Time
165	Saturn	10001.mp3	0:00:00
166	Twins	10002.mp3	0:02:36
167	Activity 10.1: Draw a Venn Diagram	10003.mp3	0:05:04
168	Ring System	10004.mp3	0:05:16
169	Think About This	10005.mp3	0:07:22
170	Fast Rotation	10006.mp3	0:07:46
171	Who Named Saturn	10007.mp3	0:09:05
172	Finding Saturn in the Night Sky	10008.mp3	0:09:17
173	Cassini Mission	10009.mp3	0:09:51
174	Saturn's Moons	10010.mp3	0:10:45
175	Activity 10.2: Launch a Rocket	10011.mp3	0:12:45
176	What Do You Remember?	10012.mp3	0:12:57

Track	Lesson 11	Filename	Start Time
177	Uranus	11001.mp3	0:00:00
178	Eureka!	11002.mp3	0:01:50
179	Think About This	11003.mp3	0:04:08
180	Activity 11.1: Create a Play About the Discovery of Uranus	11004.mp3	0:04:44
181	Orbit and Rotation	11005.mp3	0:04:56
182	Moons	11006.mp3	0:06:40
183	Titania	11007.mp3	0:07:18
184	Oberon	11008.mp3	0:07:50
185	Cordelia and Ophelia	11009.mp3	0:08:26
186	Miranda	11010.mp3	0:08:43
187	Ariel	11011.mp3	0:09:27
188	Umbriel	11012.mp3	0:09:59
189	Who Named Uranus	11013.mp3	0:10:33
190	Activity 11.2: Make Clouds	11014.mp3	0:10:59
191	What Do You Remember?	11015.mp3	0:11:11

Track	Lesson 12	Filename	Start Time
192	Neptune	12001.mp3	0:00:00
193	Neptune	12002.mp3	0:00:54
194	Activity 12.1: Make Ice Cream!	12003.mp3	0:03:00
195	Eureka!	12004.mp3	0:03:12
196	Who Named Neptune	12005.mp3	0:04:30
197	Orbit and Rotation	12006.mp3	0:04:56
198	Atmosphere	12007.mp3	0:05:42
199	Think About This	12008.mp3	0:07:02
200	Moons	12009.mp3	0:07:42
201	Activity 12.2: Create a Cartoon of Neptune	12010.mp3	0:10:10
202	What Do You Remember?	12011.mp3	0:10:22

Track	Lesson 13	Filename	Start Time
203	Kuiper Belt and the Dwarf Planets	13001.mp3	0:00:00
204	God's Creativity	13002.mp3	0:01:42

205	What is a Planet?	13003.mp3	0:02:44
206	The Kuiper Belt	13004.mp3	0:03:20
207	Math It	13005.mp3	0:06:12
208	Dwarf Planets	13006.mp3	0:06:58
209	Activity 13.1: What Do Dwarf Planets Look Like?	13007.mp3	0:09:52
210	Ceres	13008.mp3	0:10:04
211	Pluto	13009.mp3	0:12:14
212	Strange Orbit	13010.mp3	0:14:10
213	Pluto's Moons	13011.mp3	0:14:56
214	Eris	13012.mp3	0:16:27
215	Makemake	13013.mp3	0:18:39
216	Haumea	13014.mp3	0:20:25
217	Haumea's Moons	13015.mp3	0:22:09
218	Dwarf Planets in Review	13016.mp3	0:23:01
219	Activity 13.2: The Earth vs. Dwarf Planets	13017.mp3	0:25:21
220	What Do You Remember	13018.mp3	0:25:33

Track	Lesson 14	Filename	Start Time
221	Stars, Galaxies, and Space Travel; Star Light, Star Bright (1/2)	14001.mp3	0:00:00
222	Activity 14.1: Understanding the Night Sky	14002.mp3	0:04:22
223	Star Light, Star Bright (2/2)	14003.mp3	0:04:34
224	Black Holes	14004.mp3	0:05:58
225	Activity 14.2: Understanding the Expanding Universe	14005.mp3	0:08:14
226	Supernovas	14006.mp3	0:08:28
227	Variable Stars	14007.mp3	0:10:36
228	Categorizing Stars: Hot or Cold	14008.mp3	0:12:12
229	Activity 14.3: Make a Mnemonic	14009.mp3	0:14:15
230	Categorizing Stars: Bright or Dim	14010.mp3	0:14:27
231	Categorizing Stars: Big or Small	14011.mp3	0:15:59
232	Activity 14.4: Make an Astrometer	14012.mp3	0:17:55
233	Light Years	14013.mp3	0:18:07
234	Galaxies	14014.mp3	0:19:57
235	Constellations	14015.mp3	0:22:17
236	Constellations and Astronomy	14016.mp3	0:23:41
237	Activity 14.5: Locating Constellations	14017.mp3	0:25:05
238	Let's Go to Space	14018.mp3	0:25:17
239	Sputnik Sensation	14019.mp3	0:28:13
240	Space Race	14020.mp3	0:29:27
241	The 1960s	14021.mp3	0:30:16
242	The International Space Station	14022.mp3	0:33:40
243	Building the International Space Station	14023.mp3	0:41:26
244	Becoming a NASA Astronaut	14024.mp3	0:44:06
245	Seeing the International Space Station	14025.mp3	0:45:16
246	Activity 14.6: Let's Visit the Planets!; Activity 14.7: Build a Model Space S	14026.mp3	0:45:52
247	What Do You Remember?	14027.mp3	0:46:04
248	In Conclusion	14028.mp3	0:47:12