

Astronomy Today, 6/E
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Textbook Mapping to Starry Night College

Starry Night College Units that connect to **textbook parts and chapters** are in **bold text**
 Starry Night College Exercises that connect to **textbook chapter sections** are in plain text

	Astronomy and the Universe	Unit A Unit B Unit F Unit G Unit H					
		Unit A	Unit B	Unit E	Unit H		
Part 1		B6	B5	G1	Unit A		
Chapter 1	Charting The Heavens: The Foundations of Astronomy	B4					
	1.1 Our Place in Space	A1	A2	A3	A4	A5	E1-E4
	1.2 Scientific Theory and the Scientific Method	A2	A4	A5	A6	A7	A8
	1.3 The "Obvious" View	A1	A2	A3	A4	A5	A9
	1.4 Earth's Orbital Motion	A10	A11	A12	A13	A6	A7
	1.5 Astronomical Timekeeping	B6	F2	G3		A8	E3
	1.6 The Motion of the Moon						E4
	1.7 The Measurement of Distance						A9
Chapter 2	The Copernican Revolution: The Birth of Modern Science	Unit B					
	2.1 Ancient Astronomy	B1	B2	B3	B4		
	2.2 The Geocentric Universe	B1					
	2.3 The Heliocentric Model of the Solar System	B1	B2	B3	B4		
	2.4 The Birth of Modern Astronomy	B4	B5	B6	B7		
	2.5 The Laws of Planetary Motion	B3					
	2.6 The Dimensions of the Solar System	B6					
	2.7 Newton's Laws	B5					
	2.8 Newtonian Mechanics	B5	H2				
Chapter 3	Radiation: Information from the Cosmos	Unit F					
	3.1 Information from the Skies	B7	F2	F4	G1		
	3.2 Waves in What?	H3					
	3.3 The Electromagnetic Spectrum	F6					
	3.4 Thermal Radiation	F6	G1				
	3.5 The Doppler Effect	G3					
Chapter 4	Spectroscopy: The Inner Workings of Atoms	Unit G					
	4.1 Spectral Lines	G3					
	4.2 Atoms and Radiation	-					
	4.3 The Formation of Spectral Lines	-					
	4.4 Molecules	-					
	4.5 Spectral-Line Analysis	-					
Chapter 5	Telescopes: The Tools of Astronomy	Unit H					
	5.1 Optical Telescopes	H2	H3				
	5.2 Telescope Size	-					
	5.3 Images and Detectors	H2	H3				
	5.4 High-Resolution Astronomy	H2	H3				
	5.5 Radio Astronomy	-					
	5.6 Interferometry	H2	H3				
	5.7 Space-Based Astronomy	G1					
	5.8 Full-Spectrum Coverage						
Part 2	Our Planetary System	Unit C					
Chapter 6	The Solar System: An Introduction to Comparative Planetology	Unit D					

	6.1 An Inventory of the Solar System	B5	B6	
	6.2 Measuring the Planets	C1	C2	H2
	6.3 The Overall Layout of the Solar System	B5	B6	
	6.4 Terrestrial and Jovian Planets	C1	C2	
	6.5 Interplanetary Matter	D1	D2	D3
	6.6 Spacecraft Exploration of the Solar System	H2		
	6.7 How Did the Solar System Form?	F1		
Chapter 7	Earth: Our Home in Space	Unit C		
	7.1 Overall Structure of Planet Earth	C1		
	7.2 Earth's Atmosphere	-		
	7.3 Earth's Interior	-		
	7.4 Surface Activity	-		
	7.5 Earth's Magnetosphere	F1		
	7.6 The Tides	A10		
Chapter 8	The Moon and Mercury: Scorched and Battered Worlds	Unit C	Unit A	
	8.1 Orbital Properties	B2	C1	C3
	8.2 Physical Properties	C1	A10	
	8.3 Surface Features on the Moon and Mercury	C1	A10	
	8.4 Rotation Rates	C1	A10	
	8.5 Lunar Cratering and Surface Composition	A10		
	8.6 The Surface of Mercury	C1		
	8.7 Interiors	-		
	8.8 The Origin of the Moon	-		
	8.9 Evolutionary History of the Moon and Mercury	-		
Chapter 9	Venus: Earth's Sister Planet	Unit C		
	9.1 Orbital Properties	B2	C1	
	9.2 Physical Properties	C1		
	9.3 Long-Distance Observations of Venus	C1		
	9.4 The Surface of Venus	C1		
	9.5 The Atmosphere of Venus	C1		
	9.6 Venus's Magnetic Field and Internal Structure	-		
Chapter 10	Mars: A Near Miss for Life?	Unit C		
	10.1 Orbital Properties	B2	C1	
	10.2 Physical Properties	C1		
	10.3 Long-Distance Observations of Mars	C1		
	10.4 The Martian Surface	C1		
	10.5 Water on Mars	-		
	10.6 The Martian Atmosphere	-		
	10.7 Martian Internal Structure	-		
	10.8 The Moons of Mars	C4		
Chapter 11	Jupiter: Giant of the Solar System	Unit C		
	11.1 Orbital and Physical Properties	B2	C2	
	11.2 The Atmosphere of Jupiter	C2		
	11.3 Internal Structure	-		
	11.4 Jupiter's Magnetosphere	-		
	11.5 The Moons of Jupiter	C4		
	11.6 Jupiter's Ring	C2		
Chapter 12	Saturn: Spectacular Rings and Mysterious Moons	Unit C		
	12.1 Orbital and Physical Properties	B2	C2	
	12.2 Saturn's Atmosphere	C2		
	12.3 Saturn's Interior and Magnetosphere	-		
	12.4 Saturn's Spectacular Ring System	C4		
	12.5 The Moons of Saturn	C2		
Chapter 13	Uranus, Neptune, and Pluto: The Outer Worlds of the Solar System	Unit C		
	13.1 The Discoveries of Uranus and Neptune	C2		
	13.2 Orbital and Physical Properties	B2	C2	
	13.3 The Atmospheres of Uranus and Neptune	C2		
	13.4 Magnetospheres and Internal Structure	-		

	13.5 The Moon Systems of Uranus and Neptune	C4			
	13.6 The Rings of the Outermost Jovian Planets	C2			
Chapter 14	Chapter 14. Solar System Debris: Keys to Our Origin	Unit D			
	14.1 Asteroids	D1			
	14.2 Comets	D2			
	14.3 Beyond Neptune	D4			
	14.4 Meteoroids	D2			
Chapter 15	The Formation of Planetary Systems: The Solar System and Beyond	Unit B	Unit C	Unit F	
	15.1 Modeling Planet Formation	-			
	15.2 Formation of the Solar System	F1			
	15.3 Terrestrial and Jovian Planets	C1	C2		
	15.4 Solar System Regularities and Irregularities	B5	B6	C3	
	15.5 Planets Beyond the Solar System	-			
	15.6 Is Our Solar System Unusual?	-			
Part 3	Stars And Stellar Evolution	Unit F			
Chapter 16	The Sun: Our Parent Star	F1			
	16.1 Physical Properties of the Sun	F1			
	16.2 The Solar Interior	F1			
	16.3 The Solar Atmosphere	F1			
	16.4 Solar Magnetism	F1			
	16.5 The Active Sun	F1			
	16.6 The Heart of the Sun	F1			
	16.7 Observations of Solar Neutrinos	-			
Chapter 17	Measuring the Stars: Giants, Dwarfs, and the Main Sequence	Unit F			
	17.1 The Solar Neighborhood	F5			
	17.2 Luminosity and Apparent Brightness	F4			
	17.3 Stellar Temperatures	F6			
	17.4 Stellar Sizes	F6			
	17.5 The Hertzsprung-Russell Diagram	F6			
	17.6 Extending the Cosmic Distance Scale	F2			
	17.7 Stellar Masses	F6			
	17.8 Mass and Other Stellar Properties	F6			
Chaptyer 18	The Interstellar Medium: Gas and Dust Among the Stars	Unit G			
	18.1 Interstellar Matter	G1			
	18.2 Emission Nebulae	G1			
	18.3 Dark Dust Clouds	G1			
	18.4 21-Centimeter Radiation	-			
	18.5 Interstellar Molecules	-			
Chapter 19	Star Formation: A Traumatic Birth	Unit F	Unit G		
	19.1 Star-Forming Regions	G1			
	19.2 The Formation of Stars Like the Sun	F1			
	19.3 Stars of Other Masses	F1	F6		
	19.4 Observations of Cloud Fragments and Protostars	-			
	19.5 Shock Waves and Star Formation	-			
	19.6 Star Clusters	G1			
Chapter 20	Stellar Evolution: The Life and Death of a Star	Unit F			
	20.1 Leaving the Main Sequence	F6	F7		
	20.2 Evolution of a Sun-like Star	F6	F7		
	20.3 The Death of a Low-Mass Star	F6	F7		
	20.4 Evolution of Stars More Massive than the Sun	F6	F7	F8	
	20.5 Observing Stellar Evolution in Star Clusters	F6			
	20.6 Stellar Evolution in Binary Systems	F8			
Chapter 21	Stellar Explosions: Novae, Supernovae, and the Formation of the Elements	Unit F			
	21.1 Life after Death for White Dwarfs	F7			
	21.2 The End of a High-Mass Star	F7	F8		
	21.3 Supernovae	F7	F8		
	21.4 The Formation of the Elements	F7	F8		
	21.5 The Cycle of Stellar Evolution	F6	F7	F8	

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22.2	Pulsars	F8
22.3	Neutron-Star Binaries	F8
22.4	Gamma-Ray Bursts	-
22.5	Black Holes	F8
22.6	Einstein's Theories of Relativity	-
22.7	Space Travel Near Black Holes	-
22.8	Observational Evidence for Black Holes	-
Part 4	Galaxies And Cosmology	Unit G
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23.1	Our Parent Galaxy	G1
23.2	Measuring the Milky Way	H3
23.3	Galactic Structure.	G1
23.4	The Formation of the Milky Way	G2
23.5	Galactic Spiral Arms	H3
23.6	The Mass of the Milky Way Galaxy	G1
23.7	The Galactic Center	G2
Chapter 24	Galaxies: Building Blocks of the Universe	Unit G
24.1	Hubble's Galaxy Classification	G2
24.2	The Distribution of Galaxies in Space	G4
24.3	Hubble's Law	G3
24.4	Active Galactic Nuclei	-
24.5	The Central Engine of an Active Galaxy	-
Chapter 25	Galaxies and Dark Matter: The Large-Scale Structure of the Cosmos	Unit G
25.1	Dark Matter in the Universe	G4
25.2	Galaxy Collisions	-
25.3	Galaxy Formation and Evolution	G3
25.4	Black Holes in Galaxies	-
25.5	The Universe on Large Scales	G3
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26.1	The Universe on the Largest Scales	G4
26.2	The Expanding Universe	G3
26.3	The Fate of the Cosmos	G4
26.4	The Geometry of Space	-
26.5	Will the Universe Expand Forever?	-
26.6	Dark Energy and Cosmology	-
26.7	The Cosmic Microwave Background	-
Chpater 27	The Early Universe: Toward the Beginning of Time	Unit G
27.1	Back to the Big Bang	-
27.2	The Evolution of the Universe	-
27.3	The Formation of Nuclei and Atoms	-
27.4	The Inflationary Universe	-
27.5	The Formation of Structure in the Universe	-
27.6	Cosmic Structure and the Microwave Background	-
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28.2	Life in the Solar System	-
28.3	Intelligent Life in the Galaxy	-
28.4	The Search for Extraterrestrial Intelligence	-