

Subject	Science			
Course Title	Advanced Placement Biology			
Publisher	Glencoe/McGraw-Hill			
Program Title	Raven/Johnson <i>Biology</i> , Sixth Edition © 2002			
ISBN	007-298-254-3			
TEKS (Knowledge and Skills)	TEKS (Student Expectation)	Student Expectation (Breakout)	Location of student expectation/TEKS.	Pages)
01. Students will learn about molecules and cells.	A. The student is expected to know about the chemistry of life.	01.The student will investigate organic molecules in organisms.	Chapter 3, section 1, narrative; Chapter 6, section 1, narrative; Chapter 7, section 2, narrative	36; 104; 128
01. Students will learn about molecules and cells.	A. The student is expected to know about the chemistry of life.	02. The student will investigate free energy changes.	Chapter 8, section 1, narrative; Chapter 9, sections 1 & 2, narrative	144; 160 & 172
01. Students will learn about molecules and cells.	A. The student is expected to know about the chemistry of life.	03. The student will investigate enzymes.	Chapter 8, section 2, narrative	149
01. Students will learn about molecules and cells.	B. The student is expected to know about cells.	01. The student will investigate prokaryotic cells	Chapter 5, section 2, narrative; Chapter 11, section 1, narrative; Chapter 32, section 3, narrative; Chapter 34, sections 1-4, narrative	82, 208; 658; 679
01. Students will learn about molecules and cells.	B. The student is expected to know about cells.	02. The student will investigate eukaryotic cells.	Chapter 5, section 2, narrative; Chapter 7, sections 1-4, narrative	84; 123
01. Students will learn about molecules and cells.	B. The student is expected to know about cells.	03. The student will investigate cell membranes.	Chapter 6, sections 1-5, narrative; Chapter 7, section 2, narrative	103; 128
01. Students will learn about molecules and cells.	B. The student is expected to know about cells.	04. The student will investigate subcellular organization.	Chapter 5, section 3, narrative	86
01. Students will learn about molecules and cells.	B. The student is expected to know about cells.	05. The student will investigate cell cycle.	Chapter 11, section 3, narrative	212
01. Students will learn about molecules and cells.	B. The student is expected to know about cells.	06. The student will investigate cell cycle regulation.	Chapter 11, section 4, narrative	218
01. Students will learn about molecules and cells.	C. The student is expected to know about cellular energetics.	01. The student will investigate coupled reactions.	Chapter 6, section 5, narrative; Chapter 9, section 1, narrative;	120; 161
01. Students will learn about molecules and cells.	C. The student is expected to know about cellular energetics.	02. The student will investigate fermentation.	Chapter 9, section 4, narrative	181
01. Students will learn about molecules and cells.	C. The student is expected to know about cellular energetics.	03. The student will investigate cellular respiration.	Chapter 9, section 1, narrative	160
01. Students will learn about molecules and cells.	C. The student is expected to know about cellular energetics.	04. The student will investigate photosynthesis.	Chapter 10, sections 1-4, narrative	183
02. Students will learn about heredity and evolution.	A. The student is expected to know about heredity.	01. The student will investigate meiosis.	Chapter 12, sections 1-4, narrative	225
02. Students will learn about heredity and evolution.	A. The student is expected to know about heredity.	02. The student will investigate gametogenesis.	Chapter 59, section 3, narrative	1202 & 1207
02. Students will learn about heredity and evolution.	A. The student is expected to know about heredity.	03. The student will investigate eukaryotic chromosomes.	Chapter 11, section 2, narrative	210
02. Students will learn about heredity and evolution.	A. The student is expected to know about heredity.	04. The student will investigate inheritance patterns.	Chapter 13, sections 1-3, narrative	239
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	01. The student will investigate RNA structure.	Chapter 3, section 3, narrative	48
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	02. The student will investigate RNA function.	Chapter 15, section 1, narrative	300
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	03. The student will investigate DNA structure.	Chapter 3 section 3, narrative; Chapter 14, section 2, narrative	48; 284
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	04. The student will investigate DNA function.	Chapter 14, section 3, narrative	288

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02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	05. The student will investigate gene regulation.	Chapter 16, sections 1-4, narrative	313
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	06. The student will investigate mutation.	Chapter 18, section 1, narrative	362
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	07. The student will investigate viral structure.	Chapter 33, sections 1-4, narrative	665
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	08. The student will investigate replication.	Chapter 14, section 3, narrative	290
02. Students will learn about heredity and evolution.	B. The student is expected to know about molecular genetics.	09. The student will investigate nucleic acid technology and applications.	Chapter 19, sections 1-3, narrative	389
02. Students will learn about heredity and evolution.	C. The student is expected to know about evolutionary biology.	01. The student will investigate early evolution of life.	Chapter 4, sections 1-4, narrative	59
02. Students will learn about heredity and evolution.	C. The student is expected to know about evolutionary biology.	02. The student will investigate evidence for evolution.	Chapter 21, sections 1-4, narrative	439
02. Students will learn about heredity and evolution.	C. The student is expected to know about evolutionary biology.	03. The student will investigate mechanisms of evolution.	Chapter 1, section 3, narrative; Chapter 20, section 2, narrative; Chapter 22, sections 1-4, narrative	10; 424; 457
03. The student will learn about organisms and populations.	A. The student is expected to know about diversity of organisms.	01. The student will investigate evolutionary patterns.	Chapter 21, section 1, narrative; Chapter 52, section 3, narrative; Chapter 54, section 4, narrative; Chapter 55, section 4, narrative	440; 1045; 1088; 1118
03. The student will learn about organisms and populations.	A. The student is expected to know about diversity of organisms.	02. The student will investigate the survey of the diversity of life.	Chapter 44, sections 1-5, narrative; Chapter 45, sections 1-3, narrative; Chapter 46, sections 1-4, narrative; Chapter 47, sections 1-3, narrative; Chapter 48, sections 1-4, narrative; Chapter 31, section 1, narrative; Chapter 29, section 3, narrative	875; 899; 913; 933; 945; 625; 598
03. The student will learn about organisms and populations.	A. The student is expected to know about diversity of organisms.	03. The student will investigate phylogenetic classification.	Chapter 32, section 1, narrative	650
03. The student will learn about organisms and populations.	A. The student is expected to know about diversity of organisms.	04. The student will investigate evolutionary relationships.	Chapter 32, section 2, narrative	654
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	01. The student will investigate reproduction of plants.	Chapter 37, sections 1-4, narrative; Chapter 42, sections 1-4, narrative	735; 837
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	02. The student will investigate reproduction of animals.	Chapter 59, sections 1-4, narrative	1195
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	03. The student will investigate growth of plants.	Chapter 38, section 1, narrative; Chapter 41, section 1, narrative	757; 808
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	04. The student will investigate growth of animals.	Chapter 50, section 1, narrative; Chapter 60, section 5, narrative	1001; 1237

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03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	05. The student will investigate the development of plants.	Chapter 40, sections 1-4, narrative; Chapter 43, section 1, narrative	795; 853
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	06. The student will investigate the development of animals.	Chapter 17, sections 1-3, narrative; Chapter 60, sections 1-5, narrative	331; 1215
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	07. The student will investigate the structural adaptations of plants	Chapter 41, section 1, narrative; Chapter 38, sections 1-5, narrative	808; 753
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	08. The student will investigate the structural adaptations of animals.	Chapter 44, section 1, narrative; Chapter 50, section 3, narrative; Chapter 48, section 4, narrative	876; 1013; 978
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	09. The student will investigate the physiological adaptations of plants.	Chapter 41, section 2, narrative	812
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	10. The student will investigate the physiological adaptations of animals.	Chapter 51, section 3, narrative; Chapter 52, section 1, narrative, Chapter 53, section 2, narrative; Chapter 58, section 2, narrative	1028; 1038; 1056; 1182
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	11. The student will investigate the behavioral adaptations of animals.	Chapter 26, sections 1-5, narrative; Chapter 27, sections 1-4, narrative	533; 553
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	12. The student will investigate the response of plants to the environment.	Chapter 41, sections 1-4, narrative; Chapter 37, section 1, narrative	807; 736
03. The student will learn about organisms and populations.	B. The student is expected to know about structure and function of plants and animals.	13. The student will investigate the response of animals to the environment.	Chapter 20, section 2, narrative; Chapter 21, section 2, narrative; Chapter 24, section 4, narrative	428; 444; 506
03. The student will learn about organisms and populations.	C. The student is expected to know about ecology.	01. The student will investigate population dynamics.	Chapter 24, sections 1-5, narrative	495
03. The student will learn about organisms and populations.	C. The student is expected to know about ecology.	02. The student will investigate communities.	Chapter 25, sections 1-4, narrative	515
03. The student will learn about organisms and populations.	C. The student is expected to know about ecology.	03. The student will investigate ecosystems.	Chapter 28, sections 1-4, narrative; Chapter 29, sections 1-4, narrative	571; 591
03. The student will learn about organisms and populations.	C. The student is expected to know about ecology.	04. The student will investigate global issues.	Chapter 30, sections 1-4, narrative; Chapter 31, sections 1-4, narrative	611; 625