

# Texas 2014 Proclamation:

# **Anatomy and Physiology**

Introduction to Anatomy and Physiology ©2014 to Texas Essential Knowledge and Skills (TEKS)

Introduction to Anatomy and Physiology ©2014 to the English Language Proficiency Standards (ELPS)



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# **Goodheart-Willcox Publisher Correlation of** Introduction to Anatomy and Physiology @2014

	Introduction to Anatomy o	and Physiology ©2014
	to Texas Essential Knowle	edge and Skills (TEKS)
	§130.206 Anatomy	and Physiology
	STANDARD	CORRELATING PAGES
Standa		r at least 40% of instructional time, using safe,
	mentally appropriate, and ethical practices.	
		nt, but may also involve experimentation in a
	ed environment as well as field observations	
student	is expected to:	·
(A)	demonstrate safe practices during	Page 22, 1 <sup>st</sup> paragraph
	laboratory and field investigations; and	Page 25, 1 <sup>st</sup> column
		Page 25, 2 <sup>nd</sup> column
		Page 25, Safety and Resources
		Page 25, Taking It Further, #2
		Page 107, Communicating about A&P, #49
		Page 360, Column 1, next to last paragraph
(B)	demonstrate an understanding of the	Page 25, Column 1, Safety and Resources
	use and conservation of resources and	Page 25, Column 2, The Environment
	the proper disposal or recycling of	Page 25, Taking It Further, #2
	materials.	
Standa	rd (2) The student uses scientific methods and	d equipment during laboratory and field
investig	ations. The student is expected to:	
(A)	know the definition of science and	Page 22, Second new paragraph
	understand that it has limitations, as	Page 29, Analyze and Apply, #5
	specified in subsection (b)(2) of this	
	section;	
(B)	know that hypotheses are tentative and	Page 23, Column 2, first new paragraph
	testable statements that must be	Page 26, First new paragraph
	capable of being supported or not	Page 26, Column 1, last paragraph
	supported by observational evidence.	Page 26, Column 2, first paragraph
	Hypotheses of durable explanatory	Page 29, Check Your Understanding, #1
	power which have been tested over a	Page 29, Review, #4
	wide variety of conditions are	Page 107, Lab Investigations, #51
	incorporated into theories;	Page 525, Lab Investigations, #49
(C)	know scientific theories are based on	Page 23, Column 1, last paragraph
	natural and physical phenomena and are	Page 24, Column 1, first new paragraph
	capable of being tested by multiple	Page 26, Column 1, last paragraph
	independent researchers. Unlike	Page 26, Column 2, first paragraph
	hypotheses, scientific theories are well-	Page 26, Developing Scientific Theories
	established and highly-reliable	Page 29, Mini Glossary, column 2, scientific
	explanations, but they may be subject to	theory
	change as new areas of science and new	Page 29, Analyze and Apply, #6
	technologies are developed;	Page 34, Review, #35



(D)	distinguish between scientific hypotheses and scientific theories;	Page 23, Step 2: Formulating One or More Hypotheses Page 26, Developing Scientific Theories Page 29, Check Your Understanding, #1
(E)	plan and implement descriptive, comparative, and experimental investigations, including asking questions, formulating testable hypotheses, and selecting equipment and technology;	Page 25, Types of Research Page 25, Taking It Further, #1 Page 107, Lab Investigations, #51 Page 265, Lab Investigations, #45 Pages 392-394, Taking Vital Signs
(F)	collect and organize qualitative and quantitative data and make measurements with accuracy and precision using tools such as calculators, spreadsheet software, data-collecting probes, computers, standard laboratory glassware, microscopes, various prepared slides, stereoscopes, metric rulers, electronic balances, hand lenses, Celsius thermometers, hot plates, lab notebooks or journals, timing devices, Petri dishes, lab incubators, dissection equipment, meter sticks, and models, diagrams, or samples of biological specimens or structures;	Page 16, In the Lab, #8 Page 23, Column 1, paragraph 2 Page 23, Column 1, paragraph 3 Page 23, Step 3: Planning the Organization of the Study Pages 23-24, Step 4: Collecting the Data Page 25, Column 2, 4th new paragraph Page 28, Robert Hooke and Antonie Van Leeuwenhoek Page 34, Thinking Critically, #36 Page 34, Thinking Critically, #38 Page 168, Column 2, 2nd new paragraph Page 168, Column 2, 3rd new paragraph Page 205, Measuring Nerve Impulses Page 317, In the Lab, #9 Page 489, Lab Investigations, #51 Page 519, In the Lab, #12
(G)	analyze, evaluate, make inferences, and predict trends from data; and	Page 23, Step 3: Planning the Organization of the Study Page 24, Step 5: Analyzing and Evaluating the Data with Tools Page 26, Column 1, 1st new paragraph Page 34, Thinking Critically, #36 Page 34, Thinking Critically, #38 Page 35, Analyzing and Evaluating Data, #41 Page 265, Lab Investigations, #45 Page 396, In the Lab, #9
(H)	communicate valid conclusions supported by the data through methods such as lab reports, labeled drawings, graphic organizers, journals, summaries, oral reports, and technology-based reports.	Pages 24, 26, Step 7: Deriving Conclusions from the Results Page 34, Thinking Critically, #36 Page 265, Lab Investigations, #45



Standar	d (3) The student uses critical thinking, scien	tific reasoning, and problem solving to make
	d decisions within and outside the classroon	
(A)	in all fields of science, analyze, evaluate,	Page 25, Taking It Further, #1
	and critique scientific explanations by	Page 26, First new paragraph
	using empirical evidence, logical	Page 34, Thinking Critically, #38
	reasoning, and experimental and	Page 107, Lab Investigations, #51
	observational testing, including	Page 166, Taking It Further, #2
	examining all sides of scientific evidence	Page 206, Analyze and Apply, #8
	of those scientific explanations, so as to	Page 206, In the Lab, #10
	encourage critical thinking by the	Page 381, In the Lab, #9
	student;	Page 387, Taking It Further, #2
		Page 387, Taking It Further, #3
		Pages 427-428, Fever
		Page 434, Column 1, last paragraph
		Page 434, Column 2, first paragraph
		Page 449, Communicating about A&P, #39
		Page 449, Communicating about A&P, #40
(B)	communicate and apply scientific	Pages 22-26, The Scientific Method
. ,	information extracted from various	Page 23, Step 2: Formulating One or More
	sources such as current events, news	Hypotheses
	reports, published journal articles, and	Page 24, Step 6: Interpreting and Discussing
	marketing materials;	the Results
		Pages 24, 26, Step 7: Deriving Conclusions
		from the Results
		Page 73, In the Lab, #10
		Page 107, Communicating about A&P, #50
		Page 449, Lab Investigations
(C)	draw inferences based on data related to	Page 251, Paragraphs 2-7
(-)	promotional materials for products and	Page 253, In the Lab, #12
	services;	
(D)	evaluate the impact of scientific research	Page 25, Column 2, 2nd new paragraph
,	on society and the environment;	Pages 26-29, The Impact of Scientific
	,	Research: A Historic Journey
		Pages 28-29, Looking Ahead
		Page 29, Analyze and Apply, #9
		Page 225, Concussions
		Page 292, Taking It Further, #2
		Page 563, Paragraph 2
(E)	evaluate models according to their	Page 28, Next-to-last paragraph
` '	limitations in representing biological	Page 29, Check Your Understanding, #3
	objects or events; and	
(F)	research and describe the history of	Pages 26-29, The Impact of Scientific
. ,	science and contributions of scientists.	Research: A Historic Journey
		Page 29, In the Lab, #10



	ard (4) The student evaluates the energy need th which these needs are fulfilled. The studen	
(A)	analyze the chemical reactions that	Page 39, First paragraph
(A)	· ·	
	provide energy for the body;	Page 39, Second paragraph
		Page 43, Memory Tip
		Pages 47-48, ATP
		Page 50, In the Lab, #14
		Page 77, Thinking Critically, #12
(B)	evaluate the means, including the	Page 39, First paragraph
	structure and function of the digestive	Page 40, First paragraph
	system, by which energy is processed	Page 389, Hepatic Portal Circulation
	and stored within the body;	Page 451, Introduction, paragraph 3
		Page 452, First three paragraphs
		Pages 459-478, Anatomy and Physiology of
		the Digestive System
		Page 462, Check Your Understanding, #1
		Page 462, Check Your Understanding, #3
		Pages 472-475, Liver and Gallbladder
		Page 475, Check Your Understanding, #2
		Page 475, Check Your Understanding, #2
		,
		Page 475, Check Your Understanding, #4
(0)		Page 478, Analyze and Apply, #10
(C)	analyze the effects of energy deficiencies	Pages 291-292, Type II Diabetes Mellitus
	in malabsorption disorders such as	Page 481, Fourth paragraph
	diabetes, hypothyroidism, and Crohn's	Page 483, Check Your Understanding, #3
	disease; and	Page 513, Diabetes mellitus, 2nd paragraph
		Page 519, Analyze and Apply, #10
(D)	analyze the effects of energy excess in	Page 185, Paragraph 2
	disorders such as obesity as it relates to	Page 185, Taking It Further, #1
	cardiovascular and musculoskeletal	Page 299, Lab Investigations, #44
	systems.	Page 402, Paragraph 3
	,	Page 403, Analyze and Apply, #10
		es of the human body to internal and external
	The student is expected to:	Pages 17 19 Pagis Vinetic Concents
(A)	explain the coordination of muscles,	Pages 17-18, Basic Kinetic Concepts
	bones, and joints that allows movement	Pages 110-111, Functions of Skeletal System
	of the body;	Page 127, Check Your Understanding, #3
		Pages 130-133, The Upper Extremity
		Page 137, Review, #1
		Page 137, Analyze and Apply, #5
		Page 137, Analyze and Apply, #7
		Pages 138-141, Lesson 4.4, Joints
		Page 141, In the Lab, #8
		Pages 171-174, Directional Motions
		Page 192, Thinking Critically, #27
		Page 193, Lab Investigations, #46, #47



(B)	investigate and report the uses of	Page 93, Third paragraph
	various diagnostic and therapeutic	Page 205, Taking It Further, #2
	technologies;	Page 205, Measuring Nerve Impulses
		Page 210, Studying the Brain
		Page 210, Taking It Further, #1
		Page 230, Neurologist
		Page 380, Defibrillators and Life-Threatening
		Arrhythmias
		Page 381, Review, #5
(C)	interpret normal and abnormal	Pages 376-380, The Conduction System
	contractility conditions such as in	Pages 378-380, Cardiac Arrhythmias
	edema, glaucoma, aneurysms, and	Page 381, Analyze and Apply, #7
	hemorrhage;	
(D)	analyze and describe the effects of	Page 17, First two paragraphs
	pressure, movement, torque, tension,	Page 18, Pressure
	and elasticity on the human body; and	Page 18, Torque
		Page 18, Check Your Understanding, #2
		Page 19, Mechanical Stress, 1st paragraph
		Page 19, Second column, 1st paragraph
		Page 20, Check Your Understanding, #1
		Page 21, Review, #4
		Page 21, In the Lab, #10
		Page 21, In the Lab, #11
		Page 34, Thinking Critically, #29
		Page 35, Analyzing and Evaluating Data, #40
		Page 35, Communicating about A&P, #43
		Page 68, Column 2, 2nd new paragraph
		Page 117, First paragraph
		Page 117, Check Your Understanding, #5
		Page 138, Third paragraph
		Page 141, Analyze and Apply, #6
		Page 141, In the Lab, #8
		Page 145, First two paragraphs
		Page 159, Column 1, Behavioral Properties
		Page 159, Column 2, 2nd paragraph
		Pages 159-160, Tension and Types of Skeletal
		Muscle Contractions
		Page 168, Muscle Strength
		Page 181, In the Lab, #10
		Page 184, Rotational Injuries of the Shoulder
		Page 187, Analyze and Apply, #10
		Page 192, Thinking Critically, #18
		Page 192, Thinking Critically, #27
		Page 206, In the Lab, #10
		Page 312, Check Your Understanding, #3



(E)	perform an investigation to determine	Pages 17-21, How Forces Affect the Body
(-)	causes and effects of force variance and	Page 21, In the Lab, #11
	communicate findings.	Pages 118-119, Atrophy of Bones
	communicate midnigs.	Page 119, Check Your Understanding, #2
		9.
Chanala	and (C) The standard everysings the hadron areas	Page 164, 2nd paragraph
expect	• •	ses that maintain homeostasis. The student is
(A)	investigate and describe the integration	Page 12, Column 1, paragraph 1
	of the chemical and physical processes,	Page 12, Column 1, paragraph 2
	including equilibrium, temperature, pH	Pages 12-14, Homeostasis
	balance, chemical reactions, passive	Page 14, Check Your Understanding, #1-4
	transport, active transport, and	Page 53, Column 1, paragraph 1
	biofeedback, that contribute to	Page 53, Column 1, paragraph 2
	homeostasis; and	Page 53, Column 1, last paragraph
		Page 53, Check Your Understanding, #3
		Page 54, What Research Tells Us
		Page 54, Taking It Further, #1
		Page 78, Thinking Critically, #34
		Page 91, Analyze and Apply, #9
		Page 106, Thinking Critically, #32
		Pages 272-274, Hormones and Homeostasis
		Pages 283-284, Pancreas
(B)	determine the consequences of the	Page 14, Homeostatic Imbalances
(5)	failure to maintain homeostasis.	Page 14, Check Your Understanding, #4
	Tanare to maintain nomeostasis.	Page 516, Column 1, paragraph 1
Standa	ird (7) The student examines the electrical co	
	it is expected to:	muccion processes and interactions. The
(A)	illustrate conduction systems such as	Pages 203-205, Impulse Transmission and
	nerve transmission or muscle	Transmission at Synapses
	stimulation;	Page 205, What Research Tells Us
		Page 206, In the Lab, #10
		Page 206, Analyze and Apply, #7
		Page 206, Analyze and Apply, #8
(B)	investigate the therapeutic uses and	Page 380, Defibrillators and Life-Threatening
	effects of external sources of electricity	Arrhythmias
	on the body system; and	Page 381, Review, #5
(C)	evaluate the application of advanced	Page 210, What Research Tells Us
. ,	technologies such as	Page 355, Taking It Further, #1
	electroencephalogram,	Page 380, Taking It Further, #1
	electrocardiogram, bionics,	Page 441, Taking It Further, #1
	transcutaneous electrical nerve	Page 563, Second paragraph
	stimulation, and cardioversion.	. 200 505) 5000a paragraph



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nda	rd (8) The student explores the body's tra	nsport systems. The student is expected to:
	analyze the physical, chemical, and	Pages 302-309, Lesson 9.1, Functions and
	biological properties of transport	Anatomy of the Respiratory System
	systems, including circulatory,	Page 309, Analyze and Apply, #8
	respiratory, and excretory;	Page 309, Analyze and Apply, #11
		Pages 310-316, Lesson 9.2, Respiration:
		Mechanical Control
		Page 313, Column 1, paragraph 2
		Page 313, Column 1, paragraph 3
		Pages 313-315, Chemical Factors
		Page 316, Check Your Understanding, #2
		Page 317, Analyze and Apply, #7
		Page 329, Thinking Critically, #14
		Page 330, Thinking Critically, #27
		Page 330, Thinking Critically, #28
		Page 331, Lab Investigations, #51-53
		Pages 334-346, Lesson 10.1, The Function and
		Composition of Blood
		Pages 366-403, Chapter 11, The
		Cardiovascular System
		Pages 373-374, Cardiac Output
		Page 374, Analyze and Apply, #6
		Page 374, In the Lab, #9
		Pages 382-395, Lesson 11.3, Blood Vessels
		and Circulation
		Page 384, Check Your Understanding, #1
		Page 385, Column 1, paragraph 2
		Page 387, Taking It Further, #1
		Page 389, Check Your Understanding, #3
		Page 396, Analyze and Apply, #5
		Page 407, Thinking Critically, #8
		Page 407, Thinking Critically, #9
		Page 408, Thinking Critically, #27
		Pages 492-497, Anatomy of the Kidney
		Page 497, In the Lab, #11
		Pages 498-509, Lesson 14.2, Urine Formation,
		Storage, and Excretion
		Pages 499-501, Filtration
		Page 501, Check Your Understanding, #1
		Page 508, Check Your Understanding, #1
		Page 510, Analyze and Apply, #9, #11
		Page 510, Review, #7
		Page 519, In the Lab, #12
		Page 524, Thinking Critically, #25
		Page 524, Thinking Critically, #25
		Page 524, Hilliking Citically, #20

Page 525, Lab Investigations, #49



/D)	determine the factors that alter the	Dagger 221 222 Chronic Obstructive
(B)		Pages 321-323, Chronic Obstructive
	normal functions of transport systems;	Pulmonary Diseases
	and	Page 322, Emphysema
		Pages 323, Check Your Understanding, #3
		Pages 399-401, Coronary Artery Disease
		Page 401, Check Your Understanding, #2
		Page 401, Check Your Understanding, #3
(0)		Page 401, Check Your Understanding, #4
(C)	contrast the interactions among the	Pages 307-308, The Alveolar Capillary
	transport systems.	Membrane
		Pages 412-415, Organization of the Lymphatic
		System
		Page 420, In the Lab, #10
		Page 510, Review, #7
	ard (9) The student investigates environmenta	al factors that affect the human body. The
(A)	identify the effects of environmental	Page 91, Analyze and Apply, #9
(A)	factors such as climate, pollution,	Page 170, Analyze and Apply, #7
	radioactivity, chemicals, electromagnetic	Page 321, Causes of COPD
	_	Page 322, Emphysema
	fields, pathogens, carcinogens, and drugs	
(D)	on body systems; and	Page 428, Analyze and Apply, #7
(B)	explore measures to minimize harmful	Page 15, What Research Tells Us
	environmental factors on body systems.	Page 321, Causes of COPD
		Pages 323-324, Asthma
		Page 325, In the Lab, #13
Ctondo	(10) The student investigates structure on	Page 325, Check Your Understanding, #2
expect	ard (10) The student investigates structure and red to:	a function of the numan body. The student is
(A)	analyze the relationships between the	Pages 82-84, Lesson 3.1, Body Membranes
(* ')	anatomical structures and physiological	Pages 85-86, Functions of the Integumentary
	functions of systems, including the	System
	integumentary, nervous, skeletal,	Pages 86-89, Anatomy of the Skin
	musculoskeletal, cardiovascular,	Page 91, Analyze and Apply, #8
	respiratory, gastrointestinal, endocrine,	Page 91, Analyze and Apply, #10
	and reproductive;	Page 105, Thinking Critically, #12
	and reproductive,	Page 106, Thinking Critically, #32
		Page 106, Thinking Critically, #34
		Pages 110-111, Functions of the Skeletal
		System
		Pages 111-115, Structures and Classifications
		of Bones
		Page 110, Apply and Apply #4
		Page 119, Analyze and Apply, #4
		Page 119, Analyze and Apply, #5
		Pages 120-128, Lesson 4.2, The Axial Skeleton
		Page 129, Analyze and Apply, #9



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Page 129, Analyze and Apply, #10 Pages 156-158, Muscle Categories Page 159, Check Your Understanding, #2 Pages 159-161, Muscle Functions Page 161, Review, #3 Page 161, Analyze and Apply, #6 Page 161, In the Lab, #9 Pages 171-181, Lesson 5.3, The Major Skeletal Muscles Page 181, In the Lab, #10 Page 196, Paragraphs 1 and 2 Pages 202-206, Lesson 6.2, Transmission of **Nerve Impulses** Pages 207-214, Lesson 6.3, Functional Anatomy of the Central Nervous System Page 215, Analyze and Apply, #7 Page 215, Analyze and Apply, #9 Pages 216-221, Lesson 6.4, Functional Anatomy of the Peripheral Nervous System Page 222, Analyze and Apply, #9 Pages 268-269, Anatomy of the Endocrine System Pages 268-274, Lesson 8.1, Functions and Control of the Endocrine System Page 270, Check Your Understanding, #2 Page 274, In the Lab, #9 Pages 275-285, Lesson 8.2, Major Endocrine **Organs** Page 285, Analyze and Apply, #6 Page 298, Thinking Critically, #27 Pages 302-309, Lesson 9.1, Functions and Anatomy of the Respiratory System Page 305, Check Your Understanding, #2 Page 309, Analyze and Apply, #10 Page 309, Analyze and Apply, #11 Pages 310-316, Lesson 9.2, Respiration Mechanics and Control Page 315, Check Your Understanding, #5 Pages 313-315, Control of Breathing Page 331, Communicating about A&P, #50 Page 368, 2nd paragraph Pages 368-374, Lesson 11.1, Heart Anatomy and Function of the Cardiovascular System Page 374, Analyze and Apply, #4 Page 381, Analyze and Apply, #7 Pages 382-395, Lesson 11.3, Blood Vessels and Circulation



		Pages 385-392, Circulation: Moving Blood
		around the Body
		Page 408, Thinking Critically, #35
		Page 409, Lab Investigations, #44
		Page 459, Paragraphs 1-4
		Pages 464-478, Digestive Organs and Their
		Functions
		Page 475, Check Your Understanding, #3
		Page 478, Analyze and Apply, #13
		Page 478, In the Lab, #15
		Page 488, Thinking Critically, #30
		Pages 535-538, Male Reproductive Anatomy
		Pages 538-539, Male Reproductive Physiology
		Page 539, Analyze and Apply, #9
		Pages 540-544, Female Reproductive System
		Anatomy
		Pages 545-549, Female Reproductive System
		Physiology
		Page 569, Thinking Critically, #7
		Page 570, Thinking Critically, #14
		Page 570, Thinking Critically, #24
(B)	evaluate the cause and effect of disease,	Pages 62-63, Cancer
	trauma, and congenital defects on the	Page 78, Thinking Critically, #51
	structure and function of cells, tissues,	Page 100, Basal Cell Carcinoma, Squamous
	organs, and systems;	Cell Carcinoma
		Page 100, Check Your Understanding, #1
		Page 126, 1st paragraph
		Pages 223-224, Traumatic Brain Injury
		Pages 223-229, Lesson 6.5, Injuries and
		Disorders of the Nervous System
		Pages 224, 226, Cerebral Palsy
		Page 226, Spinal Cord Injury
		Page 226, Column 1, paragraphs 1-4
		Page 227, Check Your Understanding, #1
		Page 227, Check Your Understanding, #2
		Page 234, Thinking Critically, #40
		Page 234, Thinking Critically, #42
		Page 234, Review, #35
		Page 242, Eye Injuries, paragraphs 1-4
		Page 258, Column 2, 2nd new paragraph
		Page 287, Hypofunction of the Pituitary
		Gland: Dwarfism
		Page 288, Neonatal Hypothyroidism
		Page 354, Column 2, 2nd new paragraph
		Pages 354-355, Sickle Cell Anemia
		Pages 354-356, Inherited Anemias



	T	December 255 William December 7 H. C.
		Page 355, What Research Tells Us
		Page 355, Taking It Further, #1
		Pages 357-358, Leukemia
		Page 357, Check Your Understanding, #1
		Page 359, Analyze and Apply, #12
		Page 364, Thinking Critically, #31
		Pages 397-403, Lesson 11.4, Heart Disease
		Page 398, Heart Failure, paragraph 2
		Page 399, Column 1, paragraph 1
		Pages 399-401, Coronary Artery Disease
		Page 401, Heart Attack
		Page 408, Thinking Critically, #35
		Page 419, Spleen, column 1, 2nd new
		paragraph
		Pages 425, 427, Inflammatory Response
		Page 447, Thinking Critically, #7
		Pages 479-480, Gingivitis and Periodontal
		Disease
		Page 483, Analyze and Apply, #8
		Page 488, Thinking Critically, #43
		Page 513, Diabetes Mellitus
		Page 513, Column 2, paragraph 2
		Page 519, Analyze and Apply, #10
		Pages 559-560, Male Infertility
		Page 560, Column 2, paragraphs 2 and 3
		Page 562, Pelvic Inflammatory Disease
		Page 565, Review, #4
		Page 570, Thinking Critically, #44
(C)	research technological advances and	Pages 324-325, Lung Cancer, paragraph 4
, ,	limitations in the treatment of system	Page 325, Check Your Understanding, #4
	disorders; and	Page 355, What Research Tells Us
	, , , , , ,	Page 355, Taking It Further, #1
		Page 489, Communicating about A&P, #49
		Page 517, What Research Tells Us
		Page 517, Taking It Further, #1
		Page 517, Taking It Further, #2
(D)	examine characteristics of the aging	Page 14, Homeostatic Imbalances
( )	process on body systems.	Page 73, In the Lab, #10
	process on body systems.	Pages 244-245, Cataracts
		Pages 531-533, Development and Puberty
		Page 557, Taking It Further, #1
		rage 337, raking it rurtiler, #1



	ard (11) The student describes the process of udent is expected to:	reproduction and growth and development.
(A)	explain embryological development of	Page 532, Embryonic and Fetal Development
	tissues, organs, and systems;	Page 534, Analyze and Apply, #12
		Page 554, Column 1, last paragraph
		Page 555, Check Your Understanding, #3
(B)	identify the functions of the male and	Pages 538-539, Male Reproductive Physiology
	female reproductive systems; and	Page 539, Review, #2
		Page 539, Review, #7
		Page 539, Review, #8
		Page 539, Analyze and Apply, #9
		Page 539, Analyze and Apply, #10
		Pages 545-549, Physiology of the Female
		Reproductive System
		Page 549, Review, #7
		Page 570, Review, #10
		Page 570, Review, #20
(C)	summarize the human growth and	Pages 532-533, Puberty
	development cycle.	Page 532, Column 2, paragraph 2
		Page 533, Check Your Understanding, #4
		nnological advances in science. The student is
expect		
(A)	recognize advances in stem cell research	Page 341, What Research Tells Us
	such as cord blood utilization; and	Page 358, Paragraph before "Multiple
		Myeloma"
		Page 359, Analyze and Apply, #13
		Page 359, In the Lab, #14
(B)	recognize advances in bioengineering	Page 341, What Research Tells Us
	and transplant technology.	Page 359, In the Lab, #14
		Page 380, What Research Tells Us
		Page 380, Taking It Further, #1
		Page 441, What Research Tells Us
		Page 441, Taking It Further, #1
		Page 563, What Research Tells Us
		Page 563, Taking It Further, #2
		Page 563, Taking It Further, #3



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# Goodheart-Willcox Publisher Correlation of Introduction to Anatomy and Physiology ©2014 to the English Language Proficiency Standards (ELPS) for Science

STANDARD  Standard (1) Cross-curricular second language acquisition/learning strategies. The ELL uses language learning strategies to develop an awareness of his or her own learning processes in all content areas. In order for the ELL to meet grade-level learning expectations across the foundation and enrichment curriculum, all instruction delivered in English must be linguistically accommodated (communicated, sequenced, and scaffolded) commensurate with the student's level of English language proficiency. The student is expected to:  use prior knowledge to understand meanings in English  Page 193, #43 Page 268, 3rd paragraph  use prior experiences to understand meanings in English  Page 297, #8 Page 297, #8 Page 331, #49 Page 437, #9  monitor oral language production and employ self-corrective techniques or other resources  Page 193, #44 Page 235, #48 Page 235, #48 Page 235, #49  use strategic learning techniques such as concept mapping, drawing, memorizing, comparing, contrasting, and reviewing to acquire basic and grade-level vocabulary  Page 141, #8
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use prior experiences to understand meanings in English  English  Page 297, #8  Page 331, #49  Page 437, #9  monitor oral language production and employ self-corrective techniques or other resources  Page 193, #44  Page 235, #44  Page 235, #48  Page 235, #49  use strategic learning techniques such as concept mapping, drawing, memorizing, comparing, contrasting, and reviewing to acquire basic and grade-level vocabulary  Page 141, #8
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mapping, drawing, memorizing, comparing, contrasting, and reviewing to acquire basic and grade-level vocabulary  Page 119, #6  Page 129, Analyze and Apply, #8  Page 141, #8
contrasting, and reviewing to acquire basic and grade-level vocabulary  Page 129, Analyze and Apply, #8  Page 141, #8
grade-level vocabulary Page 141, #8
speak using learning strategies such as requesting Page 193, #44
assistance, employing non-verbal cues, and using Page 235, #49
synonyms and circumlocution (conveying ideas by Page 235, #48
defining or describing when exact English words Page 489, #50
are not known)
use accessible language and learn new and Page T15, #2
essential language in the process Page 151, #8
Page 193, #43
Page 268, 3rd paragraph

Standard (2) Cross-curricular second language acquisition/listening. The ELL listens to a variety of speakers including teachers, peers, and electronic media to gain an increasing level of comprehension of newly acquired language in all content areas. ELLs may be at the beginning, intermediate, advanced, or advanced high stage of English language acquisition in listening. In order for the ELL to meet grade-level learning expectations across the foundation and enrichment curriculum, all instruction delivered in English must be linguistically accommodated (communicated, sequenced, and scaffolded) commensurate with the student's level of English language proficiency. The student is expected to:



	D T45 110
learn new language structures heard during	Page T15, #3
classroom instruction and interactions	Page 79, #55
	Page 193, #43
	Page 449, #39
learn new expressions heard during classroom	Pages T15-T16, #4
instruction and interactions	Page 35, #43
	Page 79, #55
	Page 153, #41
learn basic vocabulary heard during classroom	Page 79, #55
instruction and interactions	Page 193, #43
	Page 193, #45
	Page 449, #39
learn academic vocabulary heard during	Page 35, #43
classroom instruction and interactions	Page 35, #44
	Page 79, #55
	Page 153, #41
monitor understanding of spoken language during	Page T16, #5
classroom instruction and interactions	Page 153, #41
	Page 449, #40
	Page 525, #48
seek clarification [of spoken language] as needed	Page 153, #41
	Page 235, #49
	Page 449, #40
	Page 525, #48
use linguistic support to enhance and confirm	Page 79, #55
understanding of increasingly complex and	Page 235, #47
elaborated spoken language	Page 265, #44
	Page 489, #50
demonstrate listening comprehension of	Page 193, #43
increasingly complex spoken English by retelling	Page 193, #44
or summarizing spoken messages commensurate	Page 265, #45
with content and grade-level needs	Page 571, #50
demonstrate listening comprehension of	Page 16, #7
increasingly complex spoken English by	Page 147, #9
responding to questions and requests	Page153, #41
commensurate with content and grade-level	Page 265, #44
needs	
demonstrate listening comprehension of	Page T16, #6
increasingly complex spoken English by	Page 16, #7
collaborating with peers commensurate with	Page 153, #41
content and grade-level needs	Page 265, #44
demonstrate listening comprehension of	Page 153, #41
increasingly complex spoken English by taking	Page 193, #43
notes commensurate with content and grade-	Page 299, #43
level needs	Page 449, #40



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Standard (3) Cross-curricular second language acquisition/speaking. The ELL speaks in a variety of modes for a variety of purposes with an awareness of different language registers (formal/informal) using vocabulary with increasing fluency and accuracy in language arts and all content areas. ELLs may be at the beginning, intermediate, advanced, or advanced high stage of English language acquisition in speaking. In order for the ELL to meet grade-level learning expectations across the foundation and enrichment curriculum, all instruction delivered in English must be linguistically accommodated (communicated, sequenced, and scaffolded) commensurate with the student's level of English language proficiency. The student is expected to: expand and internalize initial English vocabulary Page 16, #7 by retelling simple stories and basic information Page 193, #44 represented or supported by pictures Page 325, #13 Page 525, #47 expand and internalize initial English vocabulary Page 79, #55 Page 193, #43 by learning and using routine language needed for classroom communication Page 235, #49 Page 265, #44 speak using a variety of sentence types with Page 235, #49 increasing accuracy and ease as more English is Page 265, #44 acquired Page 409, #42 Page 569, #7 speak using a variety of connecting words with Page 79, #55 increasing accuracy and ease as more English is Page 235, #49 Page 265, #44 acquired Page 325, #13 speak using grade-level content area vocabulary Page 35, #43 in context to internalize new English words Page 153, #41 Page 193, #44 Page 265, #44 speak using grade-level content area vocabulary Page 79, #55 in context to build academic language proficiency Page 235, #49 Page 449, #39 Page 489, #50 Page 25, Taking It Further, #1 share information in cooperative learning interactions Page 35, #43 Page 489, #49 Page 489, #50 ask [for] information ranging from using a very Page 147, #9 limited bank of high-frequency, high-need, Page 187, #12 concrete vocabulary, including key words and Page 265, #44 expressions needed for basic communication in Page 525, #48 academic and social contexts, to using abstract and content-based vocabulary during extended speaking assignments



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give information ranging from using a very limited	Page 21, #11
bank of high-frequency, high-need, concrete	Page 29, #10
vocabulary, including key words and expressions	Page 147, #9
needed for basic communication in academic and	Page 187, #12
social contexts, to using abstract and content-	
based vocabulary during extended speaking	
assignments	
express opinions ranging from communicating	Page T16, #7
single words and short phrases to participating in	Page 449, #39
extended discussions on a variety of social and	Page 557, Taking It Further
grade-appropriate academic topics	Page 571, #51
express ideas ranging from communicating single	Page T16, #7
words and short phrases to participating in	Page 235, #47
extended discussions on a variety of social and	Page 292, Taking It Further, #2
grade-appropriate academic topics	Page 341, Taking It Further, #1
explain with increasing specificity and detail as	Page 193, #43
more English is acquired	Page 206, #10
	Page 229, #6
	Page 265, #44
Standard (4) Cross-curricular second language acqu	uisition/reading. The ELL reads a variety of texts

Standard (4) Cross-curricular second language acquisition/reading. The ELL reads a variety of texts for a variety of purposes with an increasing level of comprehension in all content areas. ELLs may be at the beginning, intermediate, advanced, or advanced high stage of English language acquisition in reading. In order for the ELL to meet grade-level learning expectations across the foundation and enrichment curriculum, all instruction delivered in English must be linguistically accommodated (communicated, sequenced, and scaffolded) commensurate with the student's level of English language proficiency. For kindergarten and first grade, certain of these student expectations apply to text read aloud for students not yet at the stage of decoding written text. The student is expected to:

The student is expected to:	
develop basic sight vocabulary used routinely in	Page 79, #55
written classroom materials	Page 235, #48
	Page 331, #50
	Page 365, #38
derive meaning of environmental print	Page 16, #7
	Page 253, #12
	Page 462, Memory Tip
	Page 489, #51
comprehend English vocabulary used routinely in	Page 79, #55
written classroom materials	Page 185, Taking It Further, #2
	Page 403, #9
	Page 437, #6
comprehend English language structures used	Page 40, Column 2, last line
routinely in written classroom materials	Page 79, #55
	Page 243, Memory Tip
	Page 278, Column 1, Prolactin



use prereading supports such as graphic organizers, illustrations, and pretaught topic-related vocabulary and other prereading activities to enhance comprehension of written text Pages 194-195, Chapter opening photo Pages 194-195, Chapter opening photo Pages 194-195, Introduction Pages 194-195, Introduction Page 271, Figure 8.2  read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 22, Before You Read Page 29, Introduction Page 271, Figure 8.2  read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 109, Introduction Page 271, Figure 8.2  read inguistically accommodated content area Page 109, Introduction Page 271, Figure 8.2  Page 5, Describing the Human Body Pages 379-372, Blood Flow through the Heart Pages 393-394, Measuring Blood Pressure Page 499, Urine Formation Page 50, #14  Page 235, #50  Page 359, #14  Page 235, #37  Page 235, #44  Page 235, #44  Page 235, #47  Page 235, #48  Page 489, #50  use visual and contextual support to develop wocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to read gradeapropriate content area text  Page 235, #48  Page 299, #41  Page 235, #48  Page 299, #41  Page 235, #48  Page 299, #41  Page 235, #48  Page 489, #50  use support from peers and teachers to enhance and confirm understanding  Page 79, #55  Page 235, #49  Page 249, #40  Page 235, #49  Page 249, #40  Page 249, #40  Page 249, #40  Page 250, #41  Page 249, #40  Page 271, Figure 8.2  Page 272, Page 273, #48  Page 273, Taking It Further, #1  Page 489, #50		_
and other prereading activities to enhance comprehension of written text Pages 194-195, Chapter opening photo Pages 194-195, Opening question Pages 194-195, Introduction Page 271, Figure 8.2  read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 109, Introduction Page 271, Figure 8.2  read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 109, Introduction Page 271, Figure 8.2  read linguistically accommodated content area ext Page 39, 3-394, Measuring Blood Flow through the Heart Pages 393-394, Measuring Blood Pressure Page 499, Urine Formation Page 50, B14  read confirm understanding Page 35, #14  read 235, #37  read and contextual support to enhance and confirm understanding Page 35, #14  read 235, #47  read linguistically accommodated content area text Page 335, #44  read 235, #47  read land contextual support to develop Page 35, #48  read and contextual support to develop Page 35, #14  read 235, #48  read 499, #50  read read increasingly challenging language Page 499, #51  read and contextual support to develop Page 35, #41  read 235, #48  read 499, #50  read 71, Figure 8.2  read 71, Figure 8.2  read 71, Figure 8.2  read 71, Figure 8.2  read 72, Figure 8.2  read 71, Figure 8.2  read 72, Figure 8.2  read 71, Figure 8.2  read 72, Figure 8.2  read 71, Figure 8.2  r	use prereading supports such as graphic organizers,	Page 22, Before You Read
comprehension of written text Pages 194-195, Opening question Pages 194-195, Introduction Page 271, Figure 8.2  read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 109, Introduction Page 271, Figure 8.2  use visual and contextual support to read grade-appropriate content area text Page 393-394, Measuring Blood Pressure Page 499, Urine Formation Page 339-394, Measuring Blood Pressure Page 499, Urine Formation Page 373, #4  Page 235, #40  Page 235, #44  Page 235, #48  Page 248, #50  use visual and contextual support to develop vocabulary needed to comprehend increasingly challenging language Page 499, #41  Page 235, #48  Page 235, #49  Page 489, #50  use support from peers and teachers to enhance and confirm understanding Page 449, #30  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language Page 449, #40  Page 489, #50  Page 35, #48  Page 489, #50  Page 373, #41  Page 235, #48  Page 489, #50  Page 373, #41  Page 235, #48  Page 489, #50  Page 373, #41  Page 235, #48  Page 489, #50  Page 373, #41  Page 235, #48  Page 489, #50  Page 373, #41  Page 235, #48  Page 489, #50  Page 373, #41  Page 235, #48  Page 489, #50  Page 373, #41  Page 38, #43  Page 489, #50  Page 38, #43  Page 489, #50  Page 38, #43  Page 489, #50  Page 39, #55  Page 489, #50  Page 39, #41  Page 235, #48  Page 39, #55  Page 39, #66  Page 153, #48  Page 39, #14  Page 235,	illustrations, and pretaught topic-related vocabulary	Page 109, Introduction
read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 271, Figure 8.2  use visual and contextual support to read gradeapropriate content area text Page 370, Urine Formation Page 371, Figure 8.2  use visual and contextual support to read gradeapropriate content area text Page 393-394, Measuring Blood Pressure Page 393-394, Measuring Blood Pressure Page 393-394, Measuring Blood Pressure Page 399, Urine Formation Page 359, #14 Page 235, #50 Page 359, #14 Page 235, #40 Page 357, #14 Page 235, #47 Page 235, #48 Page 489, #50  use visual and contextual support to develop vocabulary needed to comprehend increasingly challenging language Page 563, 1st paragraph  use support from peers and teachers to read gradeapropriate content area text Page 79, #55 Page 235, #48 Page 489, #50  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language Page 449, #40 Page 235, #48 Page 489, #50  use support from peers and teachers to develop vocabulary needed to comprehend increasingly Page 449, #40 Page 449, #39 Page 449, #30 Page 449, #30 Page 449, #30 Page 498, #50  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language Page 53, #48 Page 235, #48 Page 235, #48 Page 358, #49 Page 373, Taking It Further, #1	and other prereading activities to enhance	Pages 194-195, Chapter opening photo
read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 109, Introduction Page 271, Figure 8.2  use visual and contextual support to read grade-appropriate content area text Page 393-394, Measuring Blood Fressure Page 499, Urine Formation Page 370-372, Blood Flow through the Heart Pages 393-394, Measuring Blood Pressure Page 499, Urine Formation Page 235, #14 Page 235, #50 Page 359, #14 Page 235, #44 Page 235, #47 Page 35, #47 Page 235, #47 Page 235, #47 Page 235, #48 Page 235, #48 Page 235, #48 Page 235, #48 Page 239, #41 Page 235, #48 Page 399, #41 Page	comprehension of written text	Pages 194-195, Opening question
read linguistically accommodated content area material with a decreasing need for linguistic accommodations as more English is learned Page 109, Introduction Page 271, Figure 8.2  use visual and contextual support to read gradeappropriate content area text Pages 370-372, Blood Flow through the Heart Pages 393-394, Measuring Blood Pressure Page 499, Urine Formation  use visual and contextual support to enhance and confirm understanding Page 235, #50  use visual and contextual support to develop vocabulary needed to comprehend increasingly challenging language Page 439, #50  use support from peers and teachers to develop and confirm understanding Page 439, #50  use support from peers and teachers to develop background knowledge needed to comprehend increasingly challenging language Page 439, #50  use support from peers and teachers to enhance and confirm understanding Page 489, #50  use support from peers and teachers to develop background knowledge needed to comprehend increasingly challenging language Page 489, #50  use support from peers and teachers to enhance and confirm understanding Page 489, #50  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language Page 499, #39  page 449, #39  page 449, #39  page 449, #30  page 79, #55  page 153, #41  page 235, #48  page 235, #48  page 37, #39  page 449, #30  page 49, #30  page 49, #30  page 49, #30  page 49, #30  page 79, #56  page 153, #41  page 235, #48  Page 37, #36  Page 79, #56  Page 153, #41  Page 235, #48  Page 235, #48  Page 235, #48  Page 37, #36  Page 37, #36  Page 37, #36  Page 37, #36		Pages 194-195, Introduction
material with a decreasing need for linguistic accommodations as more English is learned  page 109, Introduction Page 271, Figure 8.2  use visual and contextual support to read grade- appropriate content area text  use visual and contextual support to enhance and confirm understanding  use visual and contextual support to enhance and confirm understanding  use visual and contextual support to develop pocabulary needed to comprehend increasingly challenging language  use visual and contextual support to develop page 379, #14 Page 235, #47 Page 235, #47 Page 235, #48 Page 489, #50  Page 379, #55 Page 235, #48 Page 489, #50  use support from peers and teachers to enhance and confirm understanding  use support from peers and teachers to develop page 449, #39 Page 449, #39 Page 449, #39 Page 449, #40 Page 79, #55 Page 235, #48 Page 79, #55 Page 235, #48 Page 489, #50  use support from peers and teachers to develop pocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop pocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop pocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop procabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop procabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop prage 37, #341 Page 235, #48 Page 489, #50  Page 79, #55 Page 153, #41 Page 235, #48 Page 373, #341 Page 235, #48 Page 373, #348 Page 373, #348 Page 373, #348		Page 271, Figure 8.2
material with a decreasing need for linguistic accommodations as more English is learned  page 109, Introduction Page 271, Figure 8.2  use visual and contextual support to read grade- appropriate content area text  use visual and contextual support to enhance and confirm understanding  use visual and contextual support to enhance and confirm understanding  use visual and contextual support to develop pocabulary needed to comprehend increasingly challenging language  use visual and contextual support to develop page 379, #14 Page 235, #47 Page 235, #47 Page 235, #48 Page 489, #50  Page 379, #55 Page 235, #48 Page 489, #50  use support from peers and teachers to enhance and confirm understanding  use support from peers and teachers to develop page 449, #39 Page 449, #39 Page 449, #39 Page 449, #40 Page 79, #55 Page 235, #48 Page 79, #55 Page 235, #48 Page 489, #50  use support from peers and teachers to develop pocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop pocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop pocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop procabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop procabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop prage 37, #341 Page 235, #48 Page 489, #50  Page 79, #55 Page 153, #41 Page 235, #48 Page 373, #341 Page 235, #48 Page 373, #348 Page 373, #348 Page 373, #348	read linguistically accommodated content area	Page T16, #8
accommodations as more English is learned  use visual and contextual support to read grade- appropriate content area text  use visual and contextual support to enhance and confirm understanding  use visual and contextual support to enhance and confirm understanding  use visual and contextual support to enhance and confirm understanding  use visual and contextual support to develop vocabulary needed to comprehend increasingly challenging language  use visual and contextual support to develop background knowledge needed to comprehend increasingly challenging language  use support from peers and teachers to read grade- appropriate content area text  use support from peers and teachers to enhance and confirm understanding  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop vocabulary needed to comprehend increasingly challenging language  use support from peers and teachers to develop prasp of language structures needed to comprehend increasingly challenging language  Page 335, #48 Page 373, Taking It Further, #1		Page 22, Before You Read
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demonstrate comprehension of increasingly	Page 193, #43
complex English by retelling or summarizing	Page 193, #44
material commensurate with content area and	Page 571, #50
grade level needs	
demonstrate comprehension of increasingly	Page 147, #9
complex English by responding to questions	Page 449, #40
commensurate with content area and grade level	Page 489, #50
needs	Page 525, #48
demonstrate comprehension of increasingly	Page 153, #41
complex English by taking notes commensurate with	Page 193, #43
content area and grade level needs	Page 299, #43
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Standard (5) Cross-curricular second language acquisition/writing. The ELL writes in a variety of forms with increasing accuracy to effectively address a specific purpose and audience in all content areas. ELLs may be at the beginning, intermediate, advanced, or advanced high stage of English language acquisition in writing. In order for the ELL to meet grade-level learning expectations across foundation and enrichment curriculum, all instruction delivered in English must be linguistically accommodated (communicated, sequenced, and scaffolded) commensurate with the student's level of English language proficiency. For kindergarten and first grade, certain of these student expectations do not apply until the student has reached the stage of generating original written text using a standard writing system. The student is expected to: (N/A)