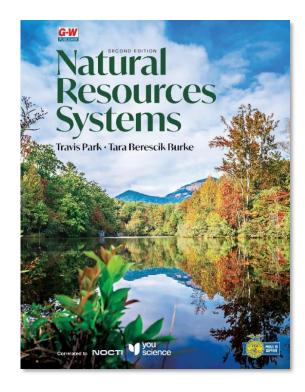
NOCTI



Correlation
of
Natural Resources Systems
Travis Park, Tara Berescik Burke
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to
NOCTI Natural Resource Systems



Standards	Textbook Pages	
Specific Standards and Competencies Included in this Assessment		
General Agriculture, Food and Natural Resources Technical Skills		
Apply knowledge of the basics of animal systems	Determining Habitat Health p138 Ecological Communities p434 Food Webs and Energy Transfer p444 Keystone Species p447 Invasive Species p454 Biodiversity and Ecological Health p474	
Apply knowledge of the basics of plant and insect systems	Types of Forests p562 Sexual and Asexual Reproduction in Forests p566 Photosynthesis and Respiration in Forests p568 Forest Insect Pests p627 Types of Grasslands p648	

Standards	Textbook Pages	
Specific Standards and Competencies Included in this Assessment		
Apply knowledge of the basics of soil, water, and air systems	Biogeochemical Cycles p83	
	Soil Functions p200	
	Soil Components p200	
	Soil Formation p206	
	Physical Properties of Soil p211	
	Soil Chemistry p217	
	Soil Classification p219	
	Water Chemistry p332	
	Weather Patterns p391	
	Air Chemistry p406	
Use, maintain, and store tools and equipment appropriately	Surveying Tools p721	
Analyze current issues in the fields of Animal Science,	Invasive Species: The Burmese Python p147	
Natural Resources, and Agricultural Biotechnology	Water Rights: Conflict in California p323	
	Marine Ecosystems: Why Are We Losing Coral Reefs? p366	
	Effects of Climate Change: The 100th Meridian p662	
Natural Resource Systems Technical Skills		
Recognize importance of resource and human	Legislation and Natural Resources p67	
interrelations to conduct management activities in	Government Agencies p70	
natural resources	Advocacy Organizations p73	
	Making a Difference p130	
	Wetland Conservation and Management p374	
	Wetland Rehabilitation and Restoration p375	
	Focusing on Solutions p423	
	Fisheries Management p510	
	Game Species Management p533	
	Sustainable Forest Management p601	
	Management of Grasslands and Rangelands p656	

Standards	Textbook Pages
Specific Standards and Competencies Included in this A	ssessment
Understand importance and methods of protecting natural resources	Legislation and Natural Resources p67 Government Agencies p70 Advocacy Organizations p73 Pollution p164 Ecological Footprint p169 Wetland Conservation and Management p374 Wetland Rehabilitation and Restoration p375 Focusing on Solutions p423 Recover and Restore Efforts p480 Sustainable Forest Management p601 Management of Grasslands and Rangelands p656
Apply scientific principles to natural resource management activities	Wetland Conservation and Management p374 Sustainable Forest Management p601 Management of Grasslands and Rangelands p656
Academic Foundations	
Apply reading skills in an Animal Science, Natural Resources, and Agricultural Biotechnology environment	Communication Skills p39 Communicating about Natural Resources p19, 107, 135, 153, 197, 279, 305, 329, 355, 381, 403, 431, 489, 743
Apply writing skills in an Animal Science, Natural Resources, and Agricultural Biotechnology environment	Communication Skills p39 Communicating about Natural Resources p19, 595, 645, 667, 691, 743 STEM and Academic Activities p48, 49, 305
Apply mathematical skills in an Animal Science, Natural Resources, and Agricultural Biotechnology environment	STEM and Academic Activities p49, 79, 107, 135, 197, 230, 279, 305, 354, 380, 403, 460, 488, 528, 558, 616, 617, 690, 716, 717, 742
Apply science skills in an Animal Science, Natural Resources, and Agricultural Biotechnology environment Systems	STEM and Academic Activities p18, 79, 134, 152, 174, 196, 230, 254, 255, 279, 354, 380, 381, 431, 460, 488, 528, 529, 558, 559, 594, 616, 617, 644, 666, 667, 690, 691, 743
Understand the major governing bodies and groups that impact how Animal Science, Natural Resources, and/or Agricultural Biotechnology organizations function (e.g., EPA)	Legislation and Natural Resources p67 Government Agencies 70 Advocacy Organizations 73 International Union for Conservation of Nature 464
Demonstrate knowledge of economic principles as applied to Animal Science, Natural Resources, and/or Agricultural Biotechnology systems (e.g., supply and demand, profit)	Economic Strength p160 Economic Value of Resources p163 Fisheries and the Economy p502 Game Hunting and the Economy p532 Economic Impact of Outdoor Recreation p670

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Standards	Textbook Pages	
Specific Standards and Competencies Included in this Assessment		
Ethics and Legal Responsibilities		
Understand the major laws and regulations that impact the Animal Science, Natural Resources, and/or Agricultural Biotechnology industry	Legislation and Natural Resources p67	
Identify and practice ethical behavior in the workplace	Ethical Workplace Behavior p42	
Communications		
Locate, organize, and reference written information from reliable sources to communicate with coworkers and clients	Communication Skills p39	
Develop and deliver formal and informal presentations using appropriate media to engage and inform audiences	Communication Skills p39	
Apply listening skills and interpret verbal and nonverbal	Are You a Good Listener? p39	
behaviors to enhance communication with coworkers and clients	Nonverbal Communication p41	
Interpret and use tables, charts, and graphics to support written and oral communication	Communication Skills p39	
Information Technology Applications		
Use computers and software to increase general work efficiency	Computer Ethics p42	
Use information technology tools specific to Animal	Surveying Tools p721	
Science, Natural Resources, and/or Agricultural Biotechnology to access and manage information (e.g.,	Global Positioning System p722	
GPS)	Geographic Information Systems p724	
Problem Solving, Critical Thinking, and Decision Making		
Use problem solving and critical thinking skills to locate	Decision Making and Problem Solving p38	
sources of information about problems and determine appropriate methods for investigating causes	Career Development Events and Leadership Development Events p769	
Use problem solving and critical thinking skills to determine root causes of problems and suggest solutions	Decision Making and Problem Solving p38	
	Career Development Events and Leadership Development Events p769	
Leadership and Teamwork		
Exhibit leadership practices to improve production and quality of work and work environment	Succeeding in the Workplace p35	
	Student Organizations: Developing Leadership Skills p36	
Work effectively in a team environment to improve the	Succeeding in the Workplace p35	
quality of work and the work environment	Communication Skills p39	
Safety, Health, and Environmental		

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Standards	Textbook Pages	
Specific Standards and Competencies Included in this Assessment		
Identify and practice appropriate environmental, health, and safety procedures for Animal Science, Natural Resources, and/or Agricultural Biotechnology occupations	Succeeding in the Workplace p35 Field Safety p550 Responsible Engagement and Safety p671 Survival Skills and Supplies p683	
Demonstrate appropriate first aid knowledge and procedures for Animal Science, Natural Resources, and Agricultural Biotechnology occupations	Survival Skills and Supplies p683	
Employability and Career Development		
Demonstrate employability skills related to a career in Animal Science, Natural Resources, and Agricultural Biotechnology	The Job Interview p34 Succeeding in the Workplace p3	
Pursue career development skills to advance in Animal Science, Natural Resources, and/or Agricultural Biotechnology careers	Contributing to Your Career Success p24 Succeeding in the Workplace p35 Communication Skills p39 Ethical Workplace Behavior p42	