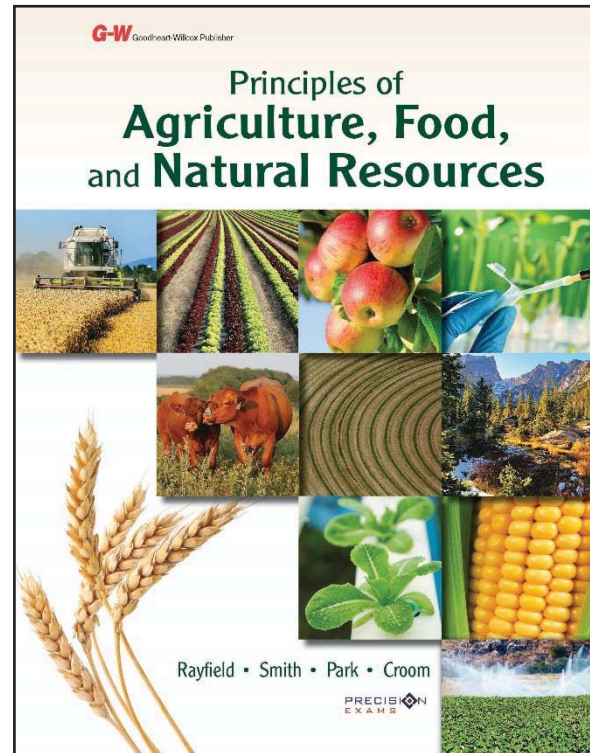




Correlation of
Principles of Agriculture, Food, and
Natural Resources
 Rayfield, Smith, Park, Croom
 (Goodheart-Willcox Publisher ©2017)
 to
New Jersey CTE Standards and Career
Ready Practices
Content Area: 21st Century Life and
Careers:
Agriculture, Food, and Natural Resources
Cluster®



Standards	G-W Content
9.1 Personal Financial Literacy	
Strand A: Income and Careers	
9.1.4.A.1 Explain the difference between a career and a job, and identify various jobs in the community and the related earnings.	117-125 Career Sectors in Agriculture
9.1.4.A.2 Identify potential sources of income.	405-410 Market, Niche Market 412-415 Accounting for Profitability
9.1.8.A.1 Explain the meaning and purposes of taxes and tax deductions and why fees for various benefits (e.g., medical benefits) are taken out of pay.	461
9.1.8.A.2 Relate how career choices, education choices, skills, entrepreneurship, and economic conditions affect income.	99-103 Agricultural Education
9.1.8.A.3 Differentiate among ways that workers can improve earning power through the acquisition of new knowledge and skills.	103-110 Developing an SAE Plan

Standards	G-W Content
9.1.8.A.4 Relate earning power to quality of life across cultures	466-467
9.1.8.A.5 Relate how the demand for certain skills determines an individual's earning power.	464-466 Supply and Demand
9.1.8.A.6 Explain how income affects spending decisions.	414-415 Cash Flow Statement, Return on Investment
9.1.12.A.4 Identify a career goal and develop a plan and timetable for achieving it, including educational/training requirements, costs, and possible debt.	55-56 Personal Leadership 99-110 Agricultural Education 115 Know and Understand #2, 7
9.1.12.A.5 Analyze how the economic, social, and political conditions of a time period can affect the labor market.	21-25 Early Agriculture on a Global Scale, Agriculture in North America
9.1.12.A.6 Summarize the financial risks and benefits of entrepreneurship as a career choice.	108-114 Time, Money, Equipment Facilities, Record keeping
9.1.12.A.8 Analyze different forms of currency and how currency is used to exchange goods and services.	408-410 Accounting for Value 412-413 Accounting for Profitability
Strand B: Money Management	
9.1.4.B.3 Explain what a budget is and why it is important.	407-408 Financial Plan
9.1.4.B.4 Identify common household expense categories and sources of income.	9-13 Areas of Agriculture
9.1.4.B.5 Identify ways to earn and save.	412-415 Accounting for Profitability
9.1.8.B.2 Construct a simple personal savings and spending plan based on various sources of income.	408-414 Accounting for Value
9.1.8.B.4 Relate the concept of deferred gratification to [investment,] meeting financial goals, and building wealth.	403-415 Business Planning
9.1.8.B.5 Explain the effect of the economy on personal income, individual and family security, and consumer decisions.	34-35 Driving Factors
9.1.8.B.8 Develop a system for keeping and using financial records.	110-114 SAE Record keeping
9.1.12.B.5 Analyze how changes in taxes, inflation, and personal circumstances can affect a personal budget.	143 STEM and Academic Activities #3
9.1.12.B.6 Design and utilize a simulated budget to monitor progress of financial plans.	407-408 Time Investment, Financial Plan

Standards	G-W Content
9.1.12.B.9 Research the types and characteristics of various financial organizations in the community (e.g., banks, credit unions, check-cashing stores, et. al.).	403 Business Planning 410-413 Assets, Liabilities, Loans, Interest, Net Worth
9.1.12.B.10 Develop a plan that uses the services of various financial institutions to meet personal and family financial goals.	403-414 Business Planning
Strand E: Becoming a Critical Consumer	
9.1.4.E.1 Determine factors that influence consumer decisions related to money.	39 Informed Consumers
9.1.8.E.1 Explain what it means to be a responsible consumer and the factors to consider when making consumer decisions.	39 Informed Consumers 41 Know and Understand #15
9.1.8.E.7 Evaluate how fraudulent activities impact consumers, and justify the creation of consumer protection laws.	415 Business Ethics
9.1.8.E.8 Recognize the techniques and effects of deceptive advertising.	415 Business Ethics
9.1.12.E.1 Evaluate the appropriateness of different types of monetary transactions (e.g., electronic transfer, check, certified check, money order, gift card, barter) for various situations.	408-415 Accounting for Value; Accounting for Profitability
9.1.12.E.4 Evaluate how media, bias, purpose, and validity affect the prioritization of consumer decisions and spending.	415 Business Ethics 445 Nature of Consumption in the United States 449-451 Consumer Demand; Examples of Local Food Systems
9.2 Career Awareness, Exploration, and Preparation	
Strand A: Career Awareness	
9.2.4.A.1 Identify reasons why people work, different types of work, and how work can help a person achieve personal and professional goals.	125-128 Selecting a Career
9.2.4.A.2 Identify various life roles and civic and work-related activities in the school, home, and community.	60-61 Opportunities to Lead
9.2.4.A.3 Investigate both traditional and nontraditional careers and relate information to personal likes and dislikes.	8–9 Employment in Agriculture 117–126 Career Sectors in Agriculture

Standards	G-W Content
9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.	126-130 Selecting a Career
Strand B: Career Exploration	
9.2.8.B.1 Research careers within the 16 Career Clusters® and determine attributes of career success.	8–9 Employment in Agriculture 117–126 Career Sectors in Agriculture 126-130 Selecting a Career
9.2.8.B.2 Develop a Personalized Student Learning Plan with the assistance of an adult mentor that includes information about career areas of interest, goals and an educational plan.	98-105 Experiential Learning 115 Know and Understand #1, 2, 9, 12 116 Thinking Critically #1
9.2.8.B.3 Evaluate communication, collaboration, and leadership skills that can be developed through school, home, work, and extracurricular activities for use in a career.	50-58 Types of Leadership 64-71 Communication Basics
9.2.8.B.4 Evaluate how traditional and nontraditional careers have evolved regionally, nationally, and globally.	117-125 Career Sectors in Agriculture 139 Know and Understand #1-2
9.2.8.B.5 Analyze labor market trends using state and federal labor market information and other resources available online.	403-406 Business Planning
9.2.8.B.6 Demonstrate understanding of the necessary preparation and legal requirements to enter the workforce.	131-137 Getting Hired
9.2.8.B.7 Evaluate the impact of online activities and social media on employer decisions.	72-73 Communication Systems 131-137 Getting Hired

Strand C: Career Preparation	
9.2.12.C.1 Review career goals and determine steps necessary for attainment.	38 STEM Connection 96–143 Agriculture as a Career 98 Experiential Learning through Agriculture (SAE) 103 1st paragraph 108-109 116 Know and Understand #12, 13 112 Career Connection 115 Know and Understand #7 116 #1–3 Thinking Critically 117-137 Your Career in Agriculture 142-143 STEM and Academic Activities #1–4 154 SAE Connection 227-229 Social Science 255 #1 Extending Your Knowledge 408 SAE Connection 418 #1 Thinking Critically 1041 # Thinking Critically
9.2.12.C.2 Modify Personalized Student Learning Plans to support declared career goals.	98-105 112 Career Connection 115 Know and Understand #1-3, 9, 12 116 Thinking Critically #1 117 3rd paragraph 125 2nd paragraph
9.2.12.C.3 Identify transferable career skills and design alternate career plans.	116 Thinking Critically #1 55–57 Personal Leadership 98-105 125–128 Selecting a Career 128–130 Preparing to be an Employee 138 Know and Understand #1, 3, 13, 14 142 Check Your Understanding #1
9.2.12.C.4 Analyze how economic conditions and societal changes influence employment trends and future education.	119-125
9.2.12.C.5 Research career opportunities in the United States and abroad that require knowledge of world languages and diverse cultures.	112 Career Connection 115 Know and Understand #3 117 3rd paragraph 125 2nd paragraph

9.2.12.C.6 Investigate entrepreneurship opportunities as options for career planning and identify the knowledge, skills, abilities, and resources required for owning and managing a business.	38 STEM Connection 96–143 Agriculture as a Career 98 Experiential Learning through Agriculture (SAE) 103 1st paragraph 112 Career Connection 115 Know and Understand #3, 7 116 #1–3 Thinking Critically 117–137 Your Career in Agriculture 142–143 #1–4 STEM and Academic Activities 154 SAE 227–229 Social Science 255 #1 Extending Your Knowledge 408 SAE Connection 418 #1 Thinking Critically 1041 # Thinking Critically
9.2.12.C.7 Examine the professional, legal, and ethical responsibilities for both employers and employees in the global workplace.	147–150
9.2.12.C.9 Analyze the correlation between personal and financial behavior and employability.	128–130 134–136
9.3 Career and Technical Education Content Area: 21st Century Life and Careers Agriculture, Food, and Natural Resources Career Cluster®	
Career Cluster®: Agriculture, Food, & Natural Resources (AG)	
9.3.12.AG.1 Analyze how issues, trends, technologies and public policies impact systems in the Agriculture, Food & Natural Resources Career Cluster.	4–8 12–13 25–29 32–39 34 Consumer Demands 39 Consumption, Informed Consumers 40 Review #5 41 Analyze and Apply #2 236–247 839 STEM #5

9.3.12.AG.2 Evaluate the nature and scope of the Agriculture, Food & Natural Resources Career Cluster and the role of agriculture, food and natural resources (AFNR) in society and the economy.	12 117-139 Your Career in Agriculture, Lesson 3.2 139 Review #1-17 142-143 Skill Development: STEM Activities #1-4 143 Communicating about Agriculture #1-3
9.3.12.AG.3 Examine and summarize the importance of health, safety and environmental management systems in AFNR businesses.	121-122 147–148 Why so Many Rules? 148–149 Child Labor 149 The Department of Labor (DOL) 149–150 Agricultural and Nonagricultural Rules 150–151 Hazardous Jobs 151–512 Working Hours 152–153 Questions for Your Employer 156 Review, Know and Understand #1–13 157 Activity, Thinking Critically #1–2
9.3.12.AG.4 Demonstrate stewardship of natural resources in AFNR activities.	1030-1041 Stewardship of Natural Resources Lesson 16.3 1041 Analyze and Apply #1-3 1041 Thinking Critically #1-3 1046 Communicating about Agriculture #2 1047 Extending Your Knowledge #3
9.3.12.AG.5 Describe career opportunities and means to achieve those opportunities in each of the Agriculture, Food & Natural Resources Career Pathways.	112 Career Connection 115 Know and Understand #3 117 3rd paragraph 125 2nd paragraph 117-139 Your Career in Agriculture, Lesson 3.2 139 Review #1-17 Career Connections throughout text
9.3.12.AG.6 Analyze the interaction among AFNR systems in the production, processing and management of food, fiber and fuel and the sustainable use of natural resources.	35-39
Pathway: Agribusiness Systems (AG-BIZ)	
9.3.12.AG-BIZ.2 Use record keeping to accomplish AFNR business objectives, manage budgets and comply with laws and regulations.	110-114 116 Know and Understand #15
9.3.12.AG-BIZ.3 Manage cash budgets, credit budgets and credit for an AFNR business using generally accepted accounting principles.	405-406 443-444
9.3.12.AG-BIZ.4 Develop a business plan for an AFNR business.	403-414 418 Thinking Critically #1

Pathway: Animal Systems (AG-ANI)	
9.3.12.AG-ANI.1 Analyze historic and current trends impacting the animal systems industry.	242-247 508-509 Beef Industry in the United States 526 Dairy Industry in the United States 538 Equine Industry in the United States 541 The Horse Industry
9.3.12.AG-ANI.2 Utilize best-practice protocols based upon animal behaviors for animal husbandry and welfare.	242-247 510 Production Cycle of Beef Cattle 513 Herd (Beef) Behavior 514 Handling (Beef) Cattle 529 Production Cycle of Dairy Cattle 533 Handling (Dairy) Cattle 540 Production Cycle of Horses 552 Horse Behavior 553 Handling Horses
9.3.12.AG-ANI.3 Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction and/or economic production.	480-496 498 Know and Understand #1-10 498 Thinking Critically #1
9.3.12.AG-ANI.4 Apply principles of animal reproduction to achieve desired outcomes for performance, development and/or economic production.	186-187 233-235 242-247
9.3.12.AG-ANI.5 Evaluate environmental factors affecting animal performance and implement procedures for enhancing performance and animal health.	186-187 258-268 513 Maintaining Herd (Beef) Health 531 The Milking Parlor 532 Maintaining Herd (Dairy) Health 549 Maintaining Herd (Equine) Health

9.3.12.AG-ANI.6 Classify, evaluate and select animals based on anatomical and physiological characteristics.	508 526 516-522 Breeds of Beef Cattle 517-520 <i>Bos Taurus</i> Cattle Breeds 521-522 <i>Bos Indicus</i> Cattle Breeds 533-535 Breeds of Dairy Cattle 548 Conformation (horses) 555-562 Breeds of Equines 555 Types of Equines 574-575 Common Chicken Terms 581-582 606-609 618-622 630-632
9.3.12.AG-ANI.7 Apply principles of effective animal health care.	186-187 513 Maintaining Herd (Beef) Health 532 Maintaining Herd (Dairy) Health 549 Maintaining Herd (Equine) Health
Pathway: Environmental Service Systems (AG-ENV)	
9.3.12.AG-ENV.1 Use analytical procedures and instruments to manage environmental service systems.	35-39
9.3.12.AG-ENV.2 Evaluate the impact of public policies and regulations on environmental service system operations.	156 Know and Understand #13 298 313 325-328
9.3.12.AG-ENV.3 Develop proposed solutions to environmental issues, problems and applications using scientific principles of meteorology, soil science, hydrology, microbiology, chemistry and ecology.	232-247 249 Know and Understand #4, 5
9.3.12.AG-ENV.4 Demonstrate the operation of environmental service systems (e.g., pollution control, water treatment, wastewater treatment, solid waste management and energy conservation).	299-308 319 Know and Understand #1-5
9.3.12.AG-ENV.5 Use tools, equipment, machinery and technology common to tasks in environmental service systems.	333-363 384-390

Pathway: Food Products & Processing Systems (AG-FD)	
9.3.12.AG-FD.1 Develop and implement procedures to ensure safety, sanitation and quality in food product and processing facilities.	454-459
9.3.12.AG-FD.2 Apply principles of nutrition, biology, microbiology, chemistry and human behavior to the development of food products.	29 33–36 39 222–225 232–242 284
9.3.12.AG-FD.3 Select and process food products for storage, distribution and consumption.	461-465 469 Know and Understand #8-10
9.3.12.AG-FD.4 Explain the scope of the food industry and the historical and current developments of food products and processing.	10, 16–29 33–39 443–451 454–467 470–474
Pathway: Natural Resources Systems (AG-NR)	
9.3.12.AG-NR.1 Plan and conduct natural resource management activities that apply logical, reasoned and scientifically based solutions to natural resource issues and goals.	1034–1039 1041 Thinking Critically #1–3
9.3.12.AG-NR.2 Analyze the interrelationships between natural resources and humans.	6–7, 24, 35 1002–1014 1030–1039
9.3.12.AG-NR.3 Develop plans to ensure sustainable production and processing of natural resources.	35-39, 461
9.3.12.AG-NR.4 Demonstrate responsible management procedures and techniques to protect or maintain natural resources.	1030–1039 1041 Analyze and Apply #3 1041 Thinking Critically #1–3
Pathway: Plant Systems (AG-PL)	
9.3.12.AG-PL.1 Develop and implement a crop management plan for a given production goal that accounts for environmental factors.	757-770
9.3.12.AG-PL.2 Apply the principles of classification, plant anatomy and plant physiology to plant production and management.	737-752 755 Know and Understand #1-4

9.3.12.AG-PL.3 Propagate, culture and harvest plants and plant products based on current industry standards.	757-770 772 Know and Understand #5-6, 18
9.3.12.AG-PL.4 Apply principles of design in plant systems to enhance an environment (e.g., floral, forest, landscape and farm).	821-828
Pathway: Power, Structural, & Technical Systems (AG-PST)	
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9.3.12.AG-PST.2 Operate and maintain AFNR mechanical equipment and power systems.	158 2nd paragraph 159 1st paragraph 174 Thinking Critically #1 380-383 Power Systems 384 Technical Systems 392 Analyze and Apply #2 1008–1012
9.3.12.AG-PST.3 Service and repair AFNR mechanical equipment and power systems.	158 2nd paragraph 159 1st paragraph 174 Thinking Critically #1 380-383 Power Systems 384 Technical Systems 392 Analyze and Apply #2
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9.3.12.AG-PST.5 Use control, monitoring, geospatial and other technologies in AFNR power, structural and technical systems.	29 35-37 Technology and Agriculture 41 Analyze and Apply #1 278-289 Emerging Agricultural Technology 291 Know and Understand #1-2
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<p>CRP 3. Attend to personal health and financial well-being.</p>	<p>113 Recording Finances 407–408 Financial Plan 412–415 Accounting for Profitability 417 Analyze and Apply #2</p>

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