

Agriculture / Small Animal Care I

Time Frame	SOL Objective/ Competency	Essential Understandings/Questions	Essential Knowledge/Skills
<p>1st Quarter (First 4½ Weeks)</p> <p>Demonstrating Workplace Readiness Skills: Personal Qualities and People Skills</p>	<p>Demonstrate positive work ethic.</p>	<ul style="list-style-type: none"> • How do you define <i>positive work ethic</i>? • How can a positive work ethic guide your behavior at work? • Why is a positive work ethic valued by teachers and employers? • Where did you acquire attitudes and beliefs regarding a work ethic? Is it possible to change attitudes and behaviors? What resources are available to help you strengthen your work ethic? 	<ul style="list-style-type: none"> • maintaining punctual and consistent attendance (e.g., accounting for hours worked, arriving on time for work or appointments) • taking direction willingly (e.g., using active listening techniques, approaching the assigned task with motivation) • exhibiting motivation to accomplish the task at hand (i.e., remaining on task and completing the task efficiently).
	<p>Demonstrate integrity.</p>		<ul style="list-style-type: none"> • identifying and abiding by laws and workplace policies (e.g., using personal and sick leave only when necessary) • respecting the property of the employer and coworkers • identifying how one's actions and behavior can have far-reaching effects (e.g., personal behavior affects others nearby; business decisions can have global implications or impact the environment) • exhibiting honesty and reliability.
	<p>Demonstrate teamwork skills.</p>	<ul style="list-style-type: none"> • What team skills are helpful at school? In the workplace? • What are the various roles of team members? • What are the consequences of using the strengths of team members? Of not using the strengths of team members? • What can you do to integrate 	<ul style="list-style-type: none"> • contributing to the success of the team (e.g., brainstorming solutions, volunteering, performing in accordance with the assigned role) • assisting others (e.g., supporting team members and leaders,

		a new person into your group or team?	<p>taking initiative)</p> <ul style="list-style-type: none"> requesting help when needed (e.g., asking questions after consulting manuals on policies and procedures, knowing when to seek help from coworkers and supervisors).
	Demonstrate self-representation skills.	<ul style="list-style-type: none"> What is the relationship between self-image and self-representation skills? Why are self-representation skills important in school? On the job? How can you improve your self-representation skills? What techniques can you employ to overcome shyness? To overcome nervousness? 	<ul style="list-style-type: none"> dressing appropriately (i.e., adhering to professional rather than personal standards, following dress code) maintaining personal hygiene using language and manners suitable for the workplace (i.e., adhering to respectful, polite, and professional practices).
	Demonstrate diversity awareness.		<ul style="list-style-type: none"> working in a respectful and friendly manner with all customers and coworkers (i.e., treating all with the same degree of professional respect), regardless of national origin, race, appearance, religion, gender, disability, or age respecting cultural differences encountered in the workplace
	Demonstrate conflict-resolution skills.		<ul style="list-style-type: none"> negotiating diplomatic solutions to interpersonal conflicts in the workplace (e.g., personality issues, cultural difference issues, disagreements over how to handle work projects, performance issues).
	Demonstrate creativity and resourcefulness.	<ul style="list-style-type: none"> How do you demonstrate independence and initiative at school? At work? How can independence and initiative impact your school 	<ul style="list-style-type: none"> contributing new ideas (e.g., for improving products and procedures) displaying initiative

		<p>goals? Career goals?</p> <ul style="list-style-type: none"> • How would you suggest that a worker demonstrate independence and initiative without overstepping his or her authority? 	<p>readily, independently, and responsibly</p> <ul style="list-style-type: none"> • dealing skillfully and promptly with new situations and obstacles • developing operational policies and procedures that use resources in a sustainable manner.
<p>Demonstrating Workplace Readiness Skills: Professional Knowledge and Skills</p>	<p>Demonstrate effective speaking and listening skills.</p>	<ul style="list-style-type: none"> • How do the professional standards and practices in your chosen field reflect the need for good speaking and listening skills? • How can miscommunication interfere with your performance in the workplace? • What resources are available to help you develop speaking and listening skills? • What are some potential consequences of having poor oral communication skills? • What do employers expect from job applicants and workers in terms of communication skills? 	<ul style="list-style-type: none"> • communicating effectively with customers and fellow coworkers (e.g., avoiding the use of slang, being pleasant and helpful) • exhibiting public and group speaking skills • comprehending details and following directions • repeating directions or requests to ensure understanding (i.e., practicing active listening).
	<p>Demonstrate effective reading and writing skills.</p>	<ul style="list-style-type: none"> • What level of reading is required on the job? • Would you like to raise your reading level? Why, or why not? How could you improve your reading skills? • What level of writing skills do you need to hold a technical job? A professional-level job? • What writing skills do you need to improve? What resources are available to help you? • How do reading and writing skills directly impact your nonoccupational activities? (In other words, how can competent skill levels of reading and writing help you succeed as an individual, as a family member, as a citizen?) • Can technology help you improve your writing skills? If so, how? 	<ul style="list-style-type: none"> • reading and correctly interpreting workplace documents (e.g., instructional manuals, work orders, invoices, memorandums) • writing clear, correct language, appropriate to audience.
	<p>Demonstrate critical-thinking and problem-solving skills.</p>	<ul style="list-style-type: none"> • What are some examples of problem-solving and decision-making methods, and how are 	<ul style="list-style-type: none"> • recognizing, analyzing, and solving problems that arise in completing

		<p>they alike and different?</p> <ul style="list-style-type: none"> • What are the consequences of using a reasoning approach to problem solving and decision making? What are some potential consequences of using a non-reasoning approach? • What steps are involved in implementing the solution to a problem? • Why do you need to test a solution or decision? 	<p>assigned tasks</p> <ul style="list-style-type: none"> • identifying resources that may help solve a specific problem • using a logical approach to make decisions and solve problems.
	<p>Demonstrate healthy behaviors and safety skills.</p>		<ul style="list-style-type: none"> • managing personal health (e.g., setting short-, medium-, and long-term physical-fitness goals; eating non- or minimally-processed foods) • following safety guidelines (e.g., adhering to Occupational Safety and Health Administration [OSHA] standards and instructor and manufacturer guidelines).
	<p>Demonstrate an understanding of workplace organizations, systems, and climates.</p>	<ul style="list-style-type: none"> • Why is it important to know where you fit into your family, your circle of friends, your school, and other groups or communities? • How do a company's vision and mission statements help you understand the big picture of the company's structure and organization? How does a knowledge of All Aspects of the Industry help? • How can a knowledge of the big picture of an industry help you with career planning? 	<ul style="list-style-type: none"> • identifying "big picture" issues (e.g., the organization's structure, culture, policies, and procedures, as well as it's role and status within the industry, economy, and community) • acknowledging the economic, political, and social relationships that exist at multiple levels (e.g., local, national, international) throughout the world • explaining one's role in fulfilling the mission of the organization.

	<p>Demonstrate lifelong-learning skills.</p>		<ul style="list-style-type: none"> continually acquiring new industry-related knowledge improving professional skills to stay current in the field and to promote personal advancement seeking education and experiences that enhance personal growth.
	<p>Demonstrate job-acquisition and advancement skills.</p>		<ul style="list-style-type: none"> preparing to apply for a job (e.g., performing a job search, developing a résumé, preparing for an interview) identifying steps for seeking promotion (e.g., taking advantage of professional development opportunities, offering to accept additional assignments, learning new skills).
	<p>Demonstrate time-, task-, and resource-management skills.</p>	<ul style="list-style-type: none"> What is the relationship between attendance at school or work and ethical behavior? Between attendance and professionalism? Between attendance and time management? How do you feel about people who always seem to be late for everything? How can you improve your time-management skills? 	<ul style="list-style-type: none"> organizing and implementing a productive plan of work (e.g., setting and meeting short-, medium-, and long-term professional goals) working efficiently to make the best use of time managing personnel to capitalize on their strengths while respecting their professional desires maintaining equipment to ensure longevity and efficiency using natural resources (and products made from them) in a sustainable manner.
	<p>Demonstrate job-</p>	<ul style="list-style-type: none"> What mathematics skills are 	<ul style="list-style-type: none"> using mathematical

	<p>specific mathematics skills.</p>	<p>required to attain an entry-level job in your chosen field? Are more complex mathematics operations required for higher-level jobs? If so, what are they?</p> <ul style="list-style-type: none"> • What resources are available to help you improve your mathematics skills? • Why is mathematics considered a communication skill? 	<p>reasoning and processes to accomplish job-specific tasks (e.g., using geometry and algebra to predict required supplies for a construction job, using computer mathematics to create a programming algorithm)</p> <ul style="list-style-type: none"> • making calculations related to personal finance (e.g., wage rates, paycheck deductions, taxes).
	<p>Demonstrate customer-service skills.</p>	<ul style="list-style-type: none"> • What does having a positive attitude mean in terms of work behavior? • How does a positive attitude help you in your personal life? In school? At work? • Why do you think employers put a premium on employees having a positive attitude? 	<ul style="list-style-type: none"> • addressing the needs of all customers (e.g., proactively engaging customers until they are satisfied) • providing helpful, courteous, and knowledgeable service (e.g., displaying a positive attitude, treating all customers with the same degree of professional respect, sharing information and knowledge honestly and forthrightly).
<p>Demonstrating Workplace Readiness Skills: Technology Knowledge and Skills</p>	<p>Demonstrate proficiency with technologies common to a specific occupation</p>		<ul style="list-style-type: none"> • selecting and safely using technological resources (e.g., equipment, machines, tools, electronics) to accomplish work efficiently and productively, while considering environmental impacts of such technologies.
	<p>Demonstrate information technology skills.</p>	<ul style="list-style-type: none"> • What basic level of computer literacy is required for the world of work? • What goals do you have in terms of computer literacy? What resources are available to help you meet your goals? 	<ul style="list-style-type: none"> • working with hardware, file-management techniques, and IT software/programs effectively and on various operating systems • working with equipment and software specific to occupation • seeking additional

			technology to improve work processes and products.
	Demonstrate an understanding of Internet use and security issues.	<ul style="list-style-type: none"> • Is the information provided through the use of technology more reliable and relevant than information obtained in other ways? Explain your answer. • What are some possible consequences of submitting personal information to Internet sites? • How can you protect your privacy and personal safety while using computer technology? 	<ul style="list-style-type: none"> • using the Internet efficiently and ethically for work • identifying the risks of posting personal and work information on the Internet (e.g., on social networking sites, job search sites) • taking measures to avoid Internet security risks (e.g., viruses, malware).
	Demonstrate telecommunications skills.		<ul style="list-style-type: none"> • selecting and using telecommunications devices (e.g., portable digital assistants, smart devices, cellular phones), services (e.g., digital subscriber line, cellular network, cable, Internet), and Web-based applications (e.g., Webmail, social networking, online auctions, wikis), appropriate to work assignments.
Examining All Aspects of an Industry	Examine aspects of planning within an industry/organization.	<ul style="list-style-type: none"> • Where can you find examples of strategic plans that align with a business or industry in your area of interest? • What lessons can you learn by comparing successful and unsuccessful businesses? • What might be some consequences of inadequate business planning? 	<ul style="list-style-type: none"> • development of vision and mission statements • setting of performance goals and objectives • review of previous performance (e.g., productivity, profit) • evaluation of current assets • formulation of strategic and operational plans • use of planning tools (e.g., market research, budget analysis, decision-making models, competitive analyses) • determination of human, natural, technology, and capital resource needs • forecasting of trends • anticipation of changes

			<p>in the business climate (e.g., economic factors, laws, regulations, taxes)</p> <ul style="list-style-type: none"> • anticipation of and compensation for organizational and industry risk.
	<p>Examine aspects of management within an industry/organization.</p>	<ul style="list-style-type: none"> • What opportunities and/or activities can provide experience in management? • What are your personal characteristics, habits, and activities that would be helpful in a professional management position? 	<ul style="list-style-type: none"> • impact of the organization's structure and culture on operations • process for accomplishing goals, using available human, natural, technology, and capital resources • ways of ensuring open communication channels • ways of enabling workers to fulfill their responsibilities • evaluation of workers' performance • provision of training and job-growth opportunities to workers • assurance of worker equity, access, and safety • resolution of conflicts • performance of employment functions (e.g., recruiting, hiring, retaining, discharging).
	<p>Examine aspects of financial responsibility within an industry/organization.</p>	<ul style="list-style-type: none"> • What resources are available to assist you with the various financial functions? • What are possible consequences of not having in place checks and balances for the full range of a business's finances? 	<ul style="list-style-type: none"> • accounting processes • financial decision-making processes, including budget development • methods of acquiring capital • management of financial operations, including payroll, transactions, records, and reports.
	<p>Examine technical and</p>	<ul style="list-style-type: none"> • How can you, as a worker, 	<ul style="list-style-type: none"> • industry-related

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	<p>production skills required of workers within an industry/organization.</p>	<p>determine the necessity to develop and/or upgrade industry-related production skills?</p> <ul style="list-style-type: none"> • What are some consequences of using good communication skills? Of using poor communication skills? • What is the importance of having more than one person analyze information in order to make decisions? • What steps can you take to develop industry-related interpersonal and team-player skills? 	<p>technical skills (e.g., communication, mathematics, science, technology, time-management, and creative-thinking skills)</p> <ul style="list-style-type: none"> • industry-related production skills (specific skills used for production of goods or services) • industry-related interpersonal and team-player skills.
	<p>Examine principles of technology that underlie an industry/organization.</p>	<ul style="list-style-type: none"> • What resources are available to the employee who wants to upgrade job skills? • What are examples of ethical issues related to technologies? 	<ul style="list-style-type: none"> • technological systems used in the industry • impact of technological systems on production of goods and services • mathematical, scientific, social, ethical, and economic principles underlying the technological systems • importance of keeping technological skills and knowledge current.
	<p>Examine labor issues related to an industry/organization.</p>	<ul style="list-style-type: none"> • What practices and methods of communication between management and labor would lead to understanding and implementing worker rights and responsibilities? • How important is compromise when dealing with labor issues? 	<ul style="list-style-type: none"> • workers' rights and responsibilities (e.g., wages, benefits, working conditions) • role of employment contracts and agreements • role of certification, licensure, and other requirements for specific jobs/occupations • role of labor organizations and other worker advocacy groups (e.g., professional/trade associations).
	<p>Examine community issues related to an</p>	<ul style="list-style-type: none"> • In what ways can an industry enhance the community in 	<ul style="list-style-type: none"> • impact of the organization on the

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	<p>industry/organization.</p>	<p>which it is located?</p> <ul style="list-style-type: none"> • How can members of the community effectively communicate their needs and concerns to a local industry? • What are examples of programs that bring together businesses and communities? 	<p>community (e.g., provision of jobs, tax revenue, and goods/services; involvement in community programs/activities; environmental impact)</p> <ul style="list-style-type: none"> • impact of the community on the organization (e.g., employee base; local taxes and regulations; local government services such as roads, schools, utilities; other local services).
	<p>Examine health, safety, and environmental issues related to an industry/organization.</p>	<ul style="list-style-type: none"> • What environmental concerns should an industry address? • What environmentally-friendly practices and resources are available to an industry? • What methods can be used to motivate employees to become involved in effective health, safety, and environmental practices? • What forewarnings and preventive measures are available to lessen the likelihood or impact of emergencies such as personal illness or injury, tornadoes, fires, nuclear accidents, floods, and incidences of employee rage or violent behavior? 	<ul style="list-style-type: none"> • responsibility for workers' health and safety • laws/regulations and practices affecting workers' health and safety • health and safety hazards • health and safety programs • responsibility for the environment • laws/regulations and practices affecting the impact on the environment • sustainability initiatives.
<p>Addressing Elements of Student Life</p>	<p>Identify the purposes and goals of the student organization.</p>		<ul style="list-style-type: none"> • providing opportunities for personal development and preparation for adult life • providing opportunities for making decisions and assuming responsibilities • encouraging democracy through cooperative action • preparing for multiple, nontraditional roles in society • promoting greater understanding between

			<p>youth and adults.</p> <ul style="list-style-type: none"> ●promoting personal growth and leadership development ● helping students develop life skills in the areas of character development and ethical behavior, creative and critical thinking, interpersonal communication, practical knowledge, and career preparation.
	<p>Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.</p>		<ul style="list-style-type: none"> ●development of leadership and other life skills, including planning, goal setting, problem solving, decision making, and interpersonal communication ●opportunities for school and community service ●development of interpersonal relationships ●opportunities for experiential learning ●opportunities to compete in student events on local, state, and national levels ●access to professional information and opportunities ●opportunities for career development. ●contributory participation in the student organization as a student and in professional/civic organization activities as an adult ●display of appropriate conduct in all activities and events related to the student organization and professional/civic organizations

	Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		<ul style="list-style-type: none"> include contributory participation in activities such as meetings, fund-raising projects, school and community-service projects, and competitive events.
	Identify Internet safety issues and procedures for complying with acceptable use standards.		<ul style="list-style-type: none"> include contributory participation in activities such as meetings, fund-raising projects, school and community-service projects, and competitive events.

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2nd Quarter (Second 4 ½ weeks) Practicing Leadership Skills	Explain classroom expectations.	<ul style="list-style-type: none"> Why is it important for each student to know what the teacher expects from him or her during the school year? What is the relationship between attendance and course success? What are the safety expectations for the classroom and laboratory? How can students show respect to classroom animals? Why is it important to respect classroom animals? 	<ul style="list-style-type: none"> include expectations involving class attendance, grading, laboratory procedures, daily class structure and preparation, respect for classroom animals and equipment, and other policies and procedures as presented in the teacher's guidelines.
	Identify essential traits of leadership.	<ul style="list-style-type: none"> What are the traits of positive leadership? How can leadership traits be developed? Who are some effective leaders? What are positive traits exhibited by those leaders? 	<ul style="list-style-type: none"> definitions of leader and leadership explanation of the need for effective leadership in the field of agriculture exploration of the positive traits of good leaders.
	Explain leadership principles.	<ul style="list-style-type: none"> What are the principles of 	<ul style="list-style-type: none"> describe the

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		<p>positive leadership?</p> <ul style="list-style-type: none"> • What are the benefits of practicing leadership principles? 	<p>characteristics of an effective leader and explore principles related to effective leadership.</p>
	<p>Explore opportunities for leadership.</p>	<ul style="list-style-type: none"> • What leadership opportunities are offered by FFA? • How do leadership activities benefit FFA members? 	<ul style="list-style-type: none"> • identification of opportunities for leadership in FFA and agriculture • examination of the ways of developing leadership skills in FFA and agriculture.
	<p>Identify benefits and responsibilities of FFA membership.</p>	<ul style="list-style-type: none"> • What are the benefits of being an FFA member? • What are the responsibilities of an FFA member? 	<ul style="list-style-type: none"> • examination of the mission statement, aims and purposes, and code of ethics of the FFA • exploration of the FFA Student Handbook and Official FFA Manual for benefits and responsibilities.
	<p>Identify duties of all officers in the FFA.</p>	<ul style="list-style-type: none"> • What are the duties of FFA officers? • What are the FFA officers and their symbols? • What leadership development opportunities exist for officers? 	<ul style="list-style-type: none"> • distinction between the various officers and their responsibilities in the FFA • exploration of the leadership development opportunities for FFA officers • examination of the various offices available at the chapter, state, and national levels.
	<p>Participate in a committee meeting.</p>	<ul style="list-style-type: none"> • What is the purpose of a committee? • How is a committee meeting conducted? • What are the twelve standing committees of an FFA organization? 	<ul style="list-style-type: none"> • examination of the purpose of a committee and explanation of how a meeting should be conducted according to parliamentary procedure.
	<p>Prepare and deliver an oral presentation or speech.</p>	<ul style="list-style-type: none"> • What are the steps in preparing and delivering a speech? • What opportunities exist for public speaking in FFA? • What future opportunities exist 	<ul style="list-style-type: none"> • explanation of the steps involved in speech preparation • explanation of the rules for FFA public speaking Career Development

		for public speaking?	Events <ul style="list-style-type: none"> • exploration of the impact of facial expressions and body language.
	Participate in a panel discussion.	<ul style="list-style-type: none"> • What is the purpose of a panel discussion? • How do you prepare for a panel discussion? • When is a panel discussion an effective means of discussion? 	<ul style="list-style-type: none"> • examination of the purpose of a panel discussion • identification of the preparation requirements of a panel discussion.
	Write a news release.	<ul style="list-style-type: none"> • What are the steps and guidelines for writing an effective news release? • How can publishing news releases benefit an FFA chapter? • What information must be obtained in order to write an effective news release? 	<ul style="list-style-type: none"> • examination of the elements of an effective news release • identification of the preparation and information required before writing a news release.
	Use parliamentary procedure.	<ul style="list-style-type: none"> • When is parliamentary procedure used within the community? • Why are the rules of parliamentary procedure followed? • What are the duties of the chairman of a meeting? • What are the different types of motions? 	<ul style="list-style-type: none"> • determination of the importance of using parliamentary procedure • examination of the various motions and their significance • exploration of the opportunities available for use of parliamentary procedure • identification of the duties of the chair in a meeting.
	Complete an FFA award and/or officer application.	<ul style="list-style-type: none"> • What FFA awards are available for application? • What are the qualifications of the various FFA offices? • What are proficiency awards? 	<ul style="list-style-type: none"> • identification of the FFA awards available • identification of the FFA offices • examination of the requirements for applying.
	List the purposes of the Virginia FFA Foundation.	<ul style="list-style-type: none"> • What is the purpose of the Virginia FFA Foundation? 	<ul style="list-style-type: none"> • examination of the history of the Virginia

		<ul style="list-style-type: none"> • What opportunities are provided by the Foundation? • How can a local FFA chapter participate in the Virginia FFA Foundation? 	<p>FFA Foundation</p> <ul style="list-style-type: none"> • identification of the benefits provided to FFA members from the Virginia FFA Foundation. • identification of the opportunities for Virginia FFA Foundation participation within the chapter.
Exploring Supervised Agricultural Experience	Explore the different types of Supervised Agricultural Experience (SAE) programs.	<ul style="list-style-type: none"> • What are the different types of SAE programs? • What awards are available for outstanding participation in the SAE programs? • What career skills can be obtained through SAE program participation? 	<p>Exploration of the different types of Supervised Agricultural Experience (SAE) programs should include</p> <ul style="list-style-type: none"> • definitions of SAE and the types of SAE programs • determination of the purpose of SAE • determination of personal goals for SAE • plans of a personal SAE • exploration of the benefits of SAE.
	Develop a budget for SAE.	<ul style="list-style-type: none"> • What steps are followed in preparing a budget? • What is the purpose of a budget? • What are the consequences of not using a budget for SAE? • Why is the ability to develop and follow a budget an important life skill? 	<p>The development of a budget should include the steps in developing a budget and identifying the benefits of using a budget.</p>
	Develop an annual plan for SAE based on personal goals.	<ul style="list-style-type: none"> • Why is a plan important for an SAE? • Who should be involved in SAE planning? • What should be contained in an annual plan? 	<p>The development of an annual plan for SAE based on personal goals should include</p> <ul style="list-style-type: none"> • examination of the advantages of preparing an annual plan for SAE • identification of the items that should be included in an annual

			<p>plan</p> <ul style="list-style-type: none"> • identification of personal goals and goals for SAE • identification of people who should be involved in SAE planning.
	<p>Develop record-keeping skills using the Virginia SAE record book.</p>	<ul style="list-style-type: none"> • Why are record-keeping skills important? • What types of records should be kept? • What award opportunities exist for using the SAE record book? 	<p>The development of record-keeping skills using the Virginia SAE record book should include</p> <ul style="list-style-type: none"> • examination of the importance of keeping records • identification of the various parts of the SAE record book • examination of the types of information that needs to be recorded • identification of FFA award opportunities related to SAE record keeping.
	<p>Conduct an agricultural research SAE project.</p>	<ul style="list-style-type: none"> • What opportunities exist for school-based research SAE projects? • What steps should be taken in conducting an SAE research project? 	<p>An SAE agricultural research project should include</p> <ul style="list-style-type: none"> • identification of the components of a SAE agricultural research project • examination of the process involved in conducting research.

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<p>3rd Quarter (Third 4½ Weeks)</p> <p>Exploring the Pet Care Industry</p>	<p>Describe opportunities in the pet care industry.</p>	<ul style="list-style-type: none"> • What types of pet care jobs are available nationwide? How does Virginia compare with other states in the availability of pet care job opportunities? • What pet care jobs exist in your locality? Elsewhere in Virginia? • What career paths may a person pursue within the pet care industry? 	<p>Description should contain the possible careers and positions available in a variety of settings, to include pet shops, kennels, veterinary clinics, laboratories, zoos, pet grooming parlors, pet training schools, and entrepreneurial ventures such as a pet-sitting</p>

			business.
	Describe the nature of the work and the salaries in small animal care.	<ul style="list-style-type: none"> • What resources are available to research occupations in small animal care? • How do the wages for small animal care occupations in Virginia compare with the national average? • What is the importance of English, mathematics, and science courses in preparing for a small animal care career? 	Description should include an explanation of the duties associated with several different occupations, with the skills and education required and the wages paid for each occupation.
	Examine the role of pets with humans from a historical perspective.	<ul style="list-style-type: none"> • How has the role of pets evolved since prehistoric times? • How is the role of pets in American society similar and different from the role of pets in other parts of the world? • How are animals used to help people in therapeutic settings? • What is the difference between traditional pets and animals trained to assist people with health-related limitations (e.g., seeing eye dogs, helper monkeys)? What are the similarities? 	Examination should include an analysis of the current role of pets in society and an explanation of how it has changed over time.
	Identify safety issues related to pet ownership.	<ul style="list-style-type: none"> • What types of diseases or other health-related problems can pets transmit to humans? How are they transmitted? • How can humans protect themselves from pet-transmitted diseases and other health conditions? • What groups are at a higher risk of disease as a result of having pets? Why? • What groups are at a higher risk of injuries as a result of having pets? Why? 	Identification should include major precautions and procedures for safeguarding pets and owners from pet-related illnesses and injuries.
Caring for and Managing Cats	Describe the specific physical characteristics of cats.	<ul style="list-style-type: none"> • What physical characteristics contribute to a cat's speed and flexibility? How? • How are a cat's eyes physically different from the eyes of other animals? What advantages do these special characteristics give the cat? 	<ul style="list-style-type: none"> • Description should include physical characteristics (such as skeletal features, coat, eyes, whiskers, ears) and their effects on a cat's functions.

		<ul style="list-style-type: none"> • Why is it important to protect and care for a cat's coat? What functions does the coat serve? 	
	Describe common breeds of cats.	<ul style="list-style-type: none"> • What common cat breeds are based on place of origin? What breeds are based on physical characteristics? • What are nonpedigreed cats? Pedigreed cats? How might the two differ? • What is the difference between a hybrid breed and a natural breed? • Which breed of cat has no tail? Which breeds have fluffy tails? • Why is it important for a small animal care employee to understand and distinguish among breeds of cats? 	<ul style="list-style-type: none"> • Description should include the most common breeds of cats, detailing their origin and unique physical characteristics.
	Select a cat.	<ul style="list-style-type: none"> • What are the pros and cons of selecting a pedigreed cat as a pet? A mixed-breed? • What factors should be considered when deciding whether to select a kitten or an adult cat? • What factors should be considered when deciding whether to select a male or a female cat? • What are the most common sources for acquiring a pet cat? What are the advantages and disadvantages of each? 	<ul style="list-style-type: none"> • Selection should be based on criteria such as knowledge of sources, breeds, health, and environmental considerations.
	Describe the nutritional requirements of cats.	<ul style="list-style-type: none"> • What are the best sources of protein for pet cats? Why? • What problems may arise if a cat is fed milk? Fresh meat or poultry? Liver? • What are the advantages and disadvantages of feeding a cat semi-moist food? Dry foods? • Why should a cat not be fed dog food on a regular basis? • How are the nutritional requirements different for kittens, adult cats, and senior cats? 	<ul style="list-style-type: none"> • Description should include the functions and source of nutrients needed in the cat's diet.
	Describe the housing requirements of cats	<ul style="list-style-type: none"> • What are the pros and cons of keeping a cat outdoors? Indoors? 	<ul style="list-style-type: none"> • Description should include the basic housing needs to include sleeping area,

		<ul style="list-style-type: none"> • What types of equipment should be in place when a new cat is brought into the home? Why? • What are the basic types of cat litter available? What are the advantages and disadvantages of each? • How can the home environment provide exercise and entertainment options for the pet cat? Why are these important? 	<p>litter area, feeding and playing areas (along with equipment and supplies for each).</p>
	Care for a cat.	<ul style="list-style-type: none"> • Why is grooming important for cats? How are the grooming requirements and equipment different for long-haired and short-haired cats? • When grooming, what special attention needs to be paid to a cat's ears? Eyes? Teeth? Skin? Why? • When and how should one give a cat a bath? • How is the care of kittens and adult cats different? 	<ul style="list-style-type: none"> • Demonstration should reflect the industry-accepted methods of grooming and bathing the cat and of caring for its teeth and claws, with consideration of breed differences.
	Describe how cats reproduce.	<ul style="list-style-type: none"> • How may the age when female cats first come into heat differ from one breed to another? • What are the signs that a female cat is in heat? How long does this period typically last? • What is the typical mating ritual of cats? • How long does pregnancy last in cats? What are the characteristics of the major stages of feline pregnancy, from conception to delivery? • What human intervention may be needed once a cat delivers the newborn kitten? Why? 	<ul style="list-style-type: none"> • Description should trace the cat's reproductive process from estrus to birth.
	Describe the growth stages of a cat.	<ul style="list-style-type: none"> • How does a cat's age influence the type of nutrition it needs? Why? • What are the primary differences between a newborn cat and a young kitten? • Why should one not adopt a kitten younger than 6-8 weeks old? • At what age should a cat be 	<ul style="list-style-type: none"> • Description should include an explanation of the stages in the growth of a cat, to include characteristics of the newborn, kitten, adult cat, and aging cat.

		<p>neutered? Why?</p> <ul style="list-style-type: none"> • What are the signs that a cat is passing from its adult to its aging phase? At this point, what changes should be initiated by the caregiver? • To what extent does a cat's breed affect its growth stages? 	
	Describe the care of a litter.	<ul style="list-style-type: none"> • What preparations are needed when a pet cat appears close to delivering kittens? • How should one take care of newborn kittens? • What precautions and care should be taken when taking care of feral newborn kittens? 	<ul style="list-style-type: none"> • Description should include an explanation of the factors involved in preparing for and caring for a litter.
	Explain how to maintain the health of cats.	<ul style="list-style-type: none"> • What is a wellness check? Why are wellness checks important? • What infectious and non-infectious diseases are common in cats? What are the symptoms and effects of each? • What parasites are common in cats? What are the symptoms and effects of each? • What measures should be taken to prevent diseases in cats? To prevent parasites in cats? • What cat diseases or other health conditions can be harmful to humans or other animals? How can the risk of transmission be reduced or eliminated? • What vaccinations are important for kittens? For adult cats? Why? 	<ul style="list-style-type: none"> • Explanation should incorporate the components of a wellness check, a list of diseases of cats for which vaccination is successful, and a list of the symptoms of the most common diseases for cats.

Time Frame	SOL Objective/ Competency	Essential Understandings/Questions	Essential Knowledge/Skills
<p>4th Quarter (Last 4½ Weeks)</p> <p>Caring for and Managing Dogs</p>	Describe the specific characteristics of dogs.	<ul style="list-style-type: none"> • What are the basic differences between a dog's skeleton and a cat's? How do these differences affect their movement and behavior? • How does sense of smell vary from one canine breed to another? • How can a dog's keen sense of smell help the animal on a daily 	Description should include the physical characteristics (such as skeletal system, eyes, ears, coat) and their effects on the dog's function.

		<p>basis? In what ways can a dog's sense of smell help humans?</p> <ul style="list-style-type: none"> • In what ways is a dog's hair a form of protection for the animal? • How does a dog's sense of hearing compare with that of humans? Of other animals? What advantages does this keen sense of hearing give the dog? • How does the sense of hearing vary from one canine breed to another? Why is this significant? 	
	<p>Describe common breeds of dogs and issues related to breeding.</p>	<ul style="list-style-type: none"> • How has the modern dog evolved from prehistoric times? • What are the most common issues and challenges related to dog breeding? • What are the advantages and disadvantages of maintaining purebred lines? 	<p>Description should include the origin and unique physical characteristics of the most common breeds of dogs, the development of breeds, and the role of the American Kennel Club and breed associations in registering and keeping purebred lines.</p>
	<p>Select a dog.</p>	<ul style="list-style-type: none"> • What are the legitimate purposes for owning a dog? • What factors about one's environment and lifestyle should be considered before beginning the process of selecting the appropriate breed of dog? • In what situations would selecting a mixed breed dog be preferable to selecting a purebred dog? Why? • What are the best resources for researching canine breeds? Why? • What are the most common sources for acquiring a pet dog? What are the advantages and disadvantages of each? 	<p>Selection should be based on criteria provided by teacher, such as knowledge of sources, breeds, health, and environmental considerations.</p>
	<p>Describe the nutritional requirements of dogs.</p>	<ul style="list-style-type: none"> • What nutrients should be included in a dog's diet? Why is each important? • What precautions should be taken when choosing food for a dog? Why? • How are the nutritional requirements different for 	<p>Description should include the functions and sources of nutrients needed in the dog's diet.</p>

		<p>puppies, adult dogs, and senior dogs?</p> <ul style="list-style-type: none"> • How are the nutritional requirements different for the various sizes of dogs? Why? 	
	Describe the physical equipment needed to keep a dog.	<ul style="list-style-type: none"> • In what ways does appropriate housing contribute to a dog's good health? • What are the pros and cons of electronic fencing? • Why is it important to establish regular feeding and exercise patterns for dogs? • What types of basic equipment and furnishings should be acquired before bringing home a new puppy or dog? 	Description should include the basic housing needs as related to the kennel; to the sleeping, feeding, and playing areas; and to the exercise area.
	Care for a dog.	<ul style="list-style-type: none"> • Why is regular grooming so important for dogs? • Why is it important to take special care of a dog's teeth, gums, and feet? • How can appropriate grooming practices vary from one breed of dog to another? • How and how often should one give a dog a bath? Why? • How is the care of puppies and adult dogs different? 	Demonstration should reflect the industry-accepted methods of grooming and bathing the dog and of caring of its teeth, gums, and feet, with consideration of breed differences.
	Describe how dogs reproduce.	<ul style="list-style-type: none"> • What are the basic considerations for caring for a pregnant female at the various stages of pregnancy? • What is colostrum? Why is it important? • What role do chromosomes play in canine reproduction? • What are the major considerations when deciding whether to neuter a dog? 	Description should trace the dog's reproductive process from estrus to birth.
	Describe the growth stages of a dog.	<ul style="list-style-type: none"> • What are the characteristics of a dog in each of the typical growth stages? • What breeds have different from average growth states? What are these growth states? What is important to be aware of them? • What are the differences in 	Description should include an explanation of the stages in the growth of a dog, to include newborn, puppy, adult dog, and aging dog.

		<p>care required by a puppy, an adult dog, and an aging dog?</p> <ul style="list-style-type: none"> • What types of basic training should be done in the puppy stages? Why? 	
	Describe the care of a litter.	<ul style="list-style-type: none"> • How is a newborn puppy different from a newborn kitten? How are they similar? • What are the major factors to consider when caring for a litter of puppies? • What role does the veterinarian play in providing health services to the young puppy? • When and how should young puppies be housebroken? When and how should the owner begin teaching them how to respond to commands? 	Description should include an explanation of the factors involved in the care of a litter, whether it belongs to one's own pet or is living in isolation.
	Maintain the health of dogs.	<ul style="list-style-type: none"> • What should be included in a basic wellness check on a dog? How often should they be performed? Why are they important? • What vaccinations are needed for dogs? When should they be administered? Why is each vaccination important? • What infectious and non-infectious diseases are common in dogs? What are the symptoms of each? How can each be treated? How can each be prevented? Which are threats to humans? • What internal and external parasites affect dogs? What are the symptoms of each? How can each be treated? How can each be prevented? • How do a dog's healthcare needs evolve over a lifetime? 	Maintenance should incorporate the components of a wellness check, a list of diseases of dogs for which vaccination is successful, and a list of the symptoms of the most common diseases of dogs.
Caring for and Managing Rabbits	Describe the specific physical characteristics of rabbits.	<ul style="list-style-type: none"> • How do a rabbit's skeletal features differ from those of a dog? A cat? How do the rabbit's skeletal features affect the animal's functionality? • What effects on the rabbit's functions do its eyes play? Its coat? Its whiskers? Its ears? • How does rabbit fur differ from 	Description should include the physical characteristics (such as skeletal features, coat, eyes, whiskers, ears) and their effects on the rabbit's functions.

		one breed to another?	
	Describe common breeds of rabbits.	<ul style="list-style-type: none"> • What rabbit breeds are used for fur? For pets? What characteristics make each of these breeds fit the purpose for which it is used? • What rabbit breeds are used in research? What types of research use rabbits? Why are rabbits used in research? • What rabbit breeds are used for meat? Why? Why is rabbit meat less popular in the United States than in Europe? 	Description should include the most common breeds of rabbits in each of the weight categories (dwarf, small, medium, large, giant), detailing the origin and unique physical characteristics of each breed.
	Select a rabbit.	<ul style="list-style-type: none"> • What are the time, cost, and environmental factors to consider when selecting a pet rabbit? • What local sources exist for acquiring a pet rabbit? What are the advantages and disadvantages of each? • What are the factors to consider when deciding whether to get a bunny or an adult rabbit? 	Selection should be based on teacher-provided criteria, such as knowledge of sources, breeds, health, and environmental considerations.
	Describe the nutritional requirements of rabbits.	<ul style="list-style-type: none"> • What are the basic needs of a rabbit's diet? Why is each important? • What type of feeding routine should a rabbit have? Why? • What role does water play in a rabbit's diet? What role does salt play? • Why is fiber so important in a rabbit's diet? 	Description should include the functions and source of nutrients needed in the rabbit's diet.
	Describe the equipment and supplies needed in the care and management of a rabbit.	<ul style="list-style-type: none"> • What are the primary considerations when preparing and positioning a rabbit cage? Why is each consideration important? • Why is an exercise area important for both indoor and outdoor rabbits? • Do rabbits need both pellets and hay? Why or why not? • What are the pros and cons of water dishes vs. water bottles for a rabbit? • Should a new rabbit owner 	<p>Description should include supplies and equipment to provide adequate and safe housing and care, such as the following.:</p> <ul style="list-style-type: none"> • Cage • Bedding • Food dish and water dish or bottle • Food (e.g., pellets, hay, fresh

		<p>purchase a litter box for the pet? Why or why not?</p> <ul style="list-style-type: none"> • What kinds of toys are appropriate for pet rabbits? Why are toys important to the rabbit? 	<p>vegetables)</p> <ul style="list-style-type: none"> • Fenced outdoor exercise area or indoor exercise run • Items for rabbit-proofing the owner's house • Toys • Litter box, litter, and litter scoop • Cleaning supplies • Grooming materials • Flea preventatives • Sturdy carrier
	Care for a rabbit.	<ul style="list-style-type: none"> • What are the primary considerations when handling a rabbit? Why? • What are the basic grooming needs of rabbits? Why are they important? 	Demonstration should reflect the appropriate method of handling rabbits and meeting their grooming needs.
	Describe how rabbits reproduce.	<ul style="list-style-type: none"> • What are the typical breeding ages for rabbits? The typical gestation period? • What is the mating process of the rabbit? How is it similar and different from that of dogs? Cats? • How does the doe prepare her nest? How can the owner assist with this process? • What factors and issues should an owner consider when deciding whether to spay or neuter a pet rabbit? 	Description should trace the rabbit's reproductive process from estrus to birth.
	Describe the growth stages of a rabbit.	<ul style="list-style-type: none"> • What are the growth stages of a rabbit? What are the characteristics of each stage? • Why is it important to separate males and females? • How do different breeds of rabbit differ in terms of growth rate? Why is this important for a pet care professional to know? • What are the differences in the needs and care of a bunny, an adult rabbit, and an aging rabbit? 	Description should include an explanation of the stages in the growth of a rabbit.
	Describe the care of a litter.	<ul style="list-style-type: none"> • What are the factors to consider in caring for a litter of 	Description should include an explanation of

		bunnies? <ul style="list-style-type: none"> • What would be included on a care plan for a family whose rabbit is about to have bunnies for the first time? • What options should a person consider if he or she finds an orphaned litter of wild bunnies? Why? 	the factors involved in the care of a litter.
	Maintain the health of rabbits.	<ul style="list-style-type: none"> • What should be included in a wellness check for a bunny? An adult rabbit? • What are the most common health problems of rabbits? What are the symptoms of each? What are the treatments? What steps can be taken to prevent these health problems? Which health problems pose a threat to humans? Why? • What role does stress play in the health of rabbits? 	Maintenance should incorporate the components of a wellness check and a list of the symptoms of the most common health problems of rabbits.