

Directions:

Evaluate the student by checking the appropriate number or letter to indicate the degree of competency. The rating for each task should reflect **employability readiness** rather than the grades given in class.

Rating Scale:

- 3 Mastered** – can work independently with no supervision
- 2 Requires Supervision** – can perform job completely with limited supervision
- 1 Not Mastered** – requires instruction and close supervision
- N No Exposure** – no experience or knowledge in this area

3	2	1	N	
				The student has mastered the related competencies of Agricultural Science I and II.

3	2	1	N	A. Issues in Animal Agriculture	Notes:
				1. Identify current and future issues relating to animal agriculture	
				Unit: Evaluate current issues in animal agriculture by researching a position on the use of biotechnology in agriculture and defending the position in a classroom debate.	
				Other:	

3	2	1	N	B. Enterprises	Notes:
				1. Describe the importance of the livestock industry in Missouri	
				2. Select a beef enterprise based on available resources	
				3. Select a dairy enterprise based on available resources	
				4. Select a swine operation based on available resources	
				5. Select a sheep enterprise based on available resources	
				6. Select a horse enterprise based on available resources	
				7. Select a poultry enterprise based on available resources	
				Unit: Use management principles developed in the unit to explain, in an oral report, how basic resources—market, land, capital, labor, and management—should be applied to establish and maintain a successful livestock enterprise.	
				Other:	

3	2	1	N	C. Selection	Notes:
				1. Use correct terminology for each species	
				2. Identify factors in livestock and poultry production	
				3. Select beef animals for production and breeding	
				4. Select dairy animals for production and breeding	
				5. Select swine for production and breeding	

				6. Select sheep for production and breeding	
				7. Select horses for performance and breeding	
				8. Select poultry for production and breeding	
				Unit: Apply principles of animal selection developed in the unit to judge classes of livestock and explain their judgments using appropriate terminology.	
				Other:	

3	2	1	N	D. Breeding	Notes:
				1. Select and develop a breeding system for a livestock enterprise	
				2. Select a mating system for a livestock enterprise	
				3. Discuss the steps to be taken to ensure reproductive efficiency in beef and dairy cattle	
				4. Discuss the steps to be taken to ensure reproductive efficiency in swine	
				5. Discuss the steps to be taken to ensure reproductive efficiency in sheep	
				6. Discuss the steps to be taken to ensure reproductive efficiency in horses	
				7. Discuss the steps to be taken to ensure reproductive efficiency in poultry	
				Unit: Demonstrate an understanding of principles of livestock breeding by explaining in an oral report the factors that affect the conception rate for a type of livestock or the hatchability rate for poultry.	
				Other:	

3	2	1	N	E. Parturition	Notes:
				1. Develop and practice production management strategies for parturition of beef and dairy cattle	
				2. Create and implement production strategies for parturition in swine	
				3. Create and implement production strategies for parturition in sheep	
				4. Create and implement production strategies for parturition of horses	
				5. Create and implement production strategies for incubation and hatching management in poultry	
				Unit: Apply parturition management strategies by devising a birthing checklist for one of the types of livestock discussed in the unit and providing a written explanation for the items and steps they included on their checklist.	
				Other:	

3	2	1	N	F. Animal Health	Notes:
				1. Identify common problems associated with beef and dairy herd health	
				2. Develop a health plan for beef and dairy cattle	
				3. Identify common problems associated with swine herd health	
				4. Develop a health plan for swine	
				5. Identify problems associated with sheep flock	

				health	
				6. Develop a flock health plan for sheep	
				7. Identify problems associated with horse herd health	
				8. Develop a health plan for horses	
				9. Identify common problems associated with poultry flock health	
				10. Develop a health plan for poultry	
				Unit: Demonstrate an understanding of animal health issues by researching a common livestock health problem and designing a poster and handout that outline its symptoms, causes, treatment, and prevention.	
				Other:	

3	2	1	N	G. Facilities and Equipment	Notes:
				1. Identify facility needs for beef cattle	
				2. Identify facility needs for dairy cattle	
				3. Identify facility needs for swine	
				4. Identify facility needs for sheep	
				5. Identify facility needs for horses	
				6. Identify facility needs for poultry	
				Unit: Demonstrate an understanding of the facility needs of livestock by devising a farm plan and explaining it to the class in an oral report that includes appropriate visuals.	
				Other:	

3	2	1	N	H. Animal Feeding	Notes:
				1. Develop a feeding program	
				2. Identify feeding options for livestock and poultry	
				Unit: Demonstrate an understanding of livestock nutritional requirements by explaining the feeding options available for a type of livestock on a display board that will be exhibited in class.	
				Other:	

3	2	1	N	I. Herd/Flock Management	Notes:
				1. Develop and implement management factors for beef cattle from birth to market	
				2. Develop and implement management factors for beef replacement stock	
				3. Develop and implement management practices for beef cows and bulls	
				4. Develop and describe management practices for dairy cattle from birth through production	
				5. Develop and implement management practices for market swine from birth to market	

				6. Make appropriate decisions for the management of swine breeding stock	
				7. Develop and describe management practices for market sheep from birth to market	
				8. Develop and describe management practices for sheep breeding stock	
				9. Develop and describe appropriate management practices for horse production	
				10. Develop and describe appropriate management practices for poultry production	
				Unit: Demonstrate an understanding of livestock management practices by explaining an assigned management practice and demonstrating how it is correctly performed by giving an oral presentation to the class.	
				Other:	

3	2	1	N	J. Marketing	Notes:
				1. Select the appropriate marketing option for specific livestock enterprises	
				Unit: Demonstrate an understanding of market planning principles by developing marketing plans for two different types of livestock and explaining the anticipated similarities and differences between the two plans in a written report.	
				Other:	

3	2	1	N	K. Leadership and Personal Development for Advanced Students	Notes:
				1. Develop a resume and complete a job application	
				2. Develop a plan for finding a job	
				3. Describe how to apply and interview for a job	
				4. Describe the characteristics needed to develop desirable personal and social skills	
				5. Describe the importance and process of developing better human relationships	
				Unit: Explore a career area by investigating entry-level job opportunities at a local agricultural business and writing a résumé and letter of application for a position.	
				Other:	

3	2	1	N	D. Using the Missouri Agricultural Record Book for Secondary Students	Notes:
				1. Complete forms needed to open the Missouri Agricultural Record Book for Secondary Students	
				2. Complete a budget for the SAE program	
				3. Complete inventory and financial statement forms for the Missouri Agricultural Record Book for Secondary Students	
				4. Complete receipt and expenditure forms in the Missouri Agricultural Record Book for Secondary Students	
				5. Complete additional forms in the Missouri Agricultural Record Book for Secondary Students	

			Unit: Demonstrate the ability to use selected forms in the <i>Missouri Agricultural Record Book for Secondary Students</i> by using a list of sample entries to complete the applicable forms in the book.	
			Other:	