RB-332

SAEP ACTIVITIES FOR ANIMAL SCIENCE AGSC 332

This publication contains a partial listing of potential SAEP activities that can be used to enhance learning. Plan, seek approval of, and verify the activities with the teacher of agricultural science and technology.

A. Knowledge of the Employability Characteristics of a Successful Worker in the Modern Workplace

- Survey the community to determine employment opportunities in animal science. Report findings to the class.
- Research an animal management occupation. Include skills required, educational level required, salary, working conditions, benefits, etc. Report findings to the class.
- Use the Internet and web browser to search for animal science job openings.
- Prepare and present a report on current research in the exotic animal industry.
- Develop and present a demonstration of an animal management skill.
- Prepare and exhibit an animal at an organized stock show.
- Develop and radio broadcast a script that identifies the importance of animals to the community. Secure services of the journalism department for assistance.
- Attend a livestock management field day and report on current skill areas.
- Participate in the management activities of a local livestock show (for example, manager of concession stands, award presenter, and bookkeeper).
- Take part in activities sponsored by a junior animal breed association.
- Participate in a management techniques workshop for animal producers. Prepare a written report of various management techniques presented.
- Apply for an award related to animal production (for example, Swine Production Proficiency Award and Beef Production Proficiency Award).
- Prepare a newspaper article to publicize the importance of animal science careers.
- Tour an agribusiness involved with animal product production and processing.
- Visit a university to obtain educational requirements for an animal science career.
- Prepare a résumé that will assist you in securing employment in animal science.
- Apply for employment with a livestock production operation. Report the results of the application and/or interview to the class.
- Interview an animal science industry employee. Identify the skills required for the position. Report findings to the class.
- Attend career day activities related to animal science. Identify supply and demand of animal science graduates in related careers. Report findings to the class.
- Review a video/slide/CD-ROM/Internet program on animal production record keeping requirements. Report findings to the class.
- Visit an agribusiness specialist regarding a computerized record keeping system.
- Interview a loan officer to identify records required for livestock loan applications.
- Locate and file literature on career information related to animal management.
- Display illustrations of people involved in animal science occupations.
- Discuss animal science occupations with the county agricultural extension agent.

- Identify animal science related careers with the school counselor.
- Train for and participate in an animal science career development event.
- Serve as officer of an animal production club.
- Secure a speaker for an animal science club meeting.
- Participate as an officer or committee chair at chapter meetings and district, area, state, and national FFA conventions.
- Contact a software firm for availability of animal record keeping programs.
- Develop a software record keeping system for an animal production enterprise.
- Assist an animal producer in keeping records on the production, performance, and health of a herd. Report findings to the class.

Other Approved Activities:

B. Explanation of Animal Anatomy and Physiology Related to Nutrition, Reproduction, Health, and Management of Domesticated Animals

- Record vital signs (body temperature, respiratory rate, etc.) daily for a domesticated animal for five days. Report findings to the class.
- Develop a written report on the nervous, urinary, or endocrine system of a domesticated animal. Secure assistance from the biology department. Report findings to the class.
- Prepare a skeleton of a domesticated animal (contact a rancher for a herd animal that died of natural causes or a veterinarian for a specimen carcass).
- Develop a video/slide/CD-ROM/Internet program on animal health, nutrition, and reproduction. Present the program to the class.
- Discuss the importance of animal health management practices with a producer.
- Explain the importance of animal nutrition with a veterinarian.
- Prepare audio-visuals to assist in orally presenting a discussion of the anatomy of an animal's skeletal/circulatory/respiratory/nervous/muscular system.
- Observe an animal production enterprise for a few minutes each day for a week. Report animal behavior, such as estrous, sickness, and resting areas. Discuss findings in class.
- Obtain meat promotion information on animal health, reproduction, nutrition, and management. Display the literature on the classroom bulletin board.
- Develop goals for an animal health management plan (for example, reducing animal deaths, preventing carcass bruises, and controlling weight losses). Discuss in class.

Other Approved Activities:

C. Determination of the Nutritional Requirements of Ruminant and Non-Ruminant Animals

- Visit an animal slaughtering house. Secure a digestive system of an animal. Dissect the system. Identify and explain the functions of each part.
- Tour a feed store to identify feeds on hand. Report findings to the class.
- Prepare an essay entitled "Differences Between Ruminants and Non-Ruminants."
- Interview an animal producer. Describe the facilities for mixing feed rations. Record sources of nutrients used and methods for preparing complete rations. Report findings.
- Develop a 3-month feeding program for an animal enterprise. Discuss in class.

- Display illustrations of differences in the digestive systems of different animals.
- Secure local prices of feeds. Calculate a least cost balanced ration for an animal.
- Report on variable feeding programs for a diversified animal enterprise.
- Orally report on "Balancing a Feed Ration."
- Identify average protein contents of major crops in the area. Name crops having the best nutritional values for feedstuffs. Report findings to the class.
- Exhibit different feedstuffs (roughages and concentrates) at a local/county show.
- Display commercial feed tags on the bulletin board.
- Compare nutritional values of a feed with the nutritional needs of an animal.
- Balance a feed ration for an animal. Compare the ration with another student's feed ration for a similar animal. Report findings to the class.

Other Approved Activities:

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D. Explanation of Animal Genetics and Reproduction

- Organize a group to enroll in an Artificial Insemination (AI) certification course.
- Tour an animal breeding enterprise to identify individual traits of animals.
- Prepare and display illustrations of mitosis and meiosis (cell division processes).
- Design a breeding program for an animal production enterprise. Discuss in class.
- Conduct a genetics experiment (for example, mate mice of different eye colors).
- Tour an animal slaughtering house. Secure a reproductive system of an animal. Dissect the system. Identify and explain the functions of each part.
- Develop a written report on "Methods of Determining Pregnancy in Animals."
- Prepare a display that describes normal and abnormal development of the egg.
- Visit with an animal breeder. Secure information on various breeding systems.
- Interview an animal breeder who uses embryo transfer. Discuss findings in class.
- Illustrate and display development of a fetus, using 30-day development stages.
- Demonstrate artificial insemination of an animal to the class.
- Assist a veterinarian with a pregnancy diagnosis (palpation).
- Videorecord the birth of an animal. Present the videorecording to the class.
- Present an oral report on a breeding system preferred by local producers.

Other Approved Activities:

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E. Identification of Animal Pests and Diseases

- Tour an animal production enterprise to observe the herd health program. Report findings to the class.
- Conduct a survey to identify major animal health problems. Record recommendations to improve the general health of animals in the area. Report findings to the class.
- Interview a veterinarian. Discuss preventive measures for an animal health management program. Report findings to the class.
- Collect and display illustrations of animals infected with different diseases or infested with internal and external parasites. Correctly label each illustration.

Orally report on an animal disease that is prevalent in the community. Discuss the cause, treatment, prevention, and control of the disease. Other Approved Activities: **Recognition of Livestock Management Techniques** Tour an animal production enterprise. Report on facilities and equipment used. Conduct a survey of animal production equipment and facilities used in the community. Interview an animal producer regarding animal management procedures used. Demonstrate an animal management technique (for example, restraining, worming, castrating, docking, and dehorning.) Collect and display photographs of different methods of animal management. Identify each photograph and list each method's advantages and disadvantages. Obtain and display desirable and undesirable animal management facilities. Assist a veterinarian with restraining an animal for diagnostic work. Secure/Display literature describing latest technology in animal management products. Secure information on animal registration procedures. Develop an immunization schedule for a domesticated animal. Orally report on methods of animal identification (for example, ear tag, hide brand, tattoo, electronic sensor, etc.). Discuss advantages and disadvantages of each. Display sanitary and unsanitary equipment used with animals.

Knowledge of Current Topics in Animal Science

Other Approved Activities:

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- Visit with an animal producer. Identify performance-testing procedures used by the producer. Report findings to the class.
- Interview a livestock judge. Record the judge's views on visual appraisal.

Exhibit equipment used for safely handling and restraining animals.

- Visit with a public attorney to identify legal concerns of animal producers (e.g., a producer's liability for allowing animals to stray on a public road). Discuss findings.
- Interview an animal activist. Report on the issue of animal rights to the class.
- Illustrate and display the advantages and disadvantages of visual appraisal, pedigree selection, production testing, and progeny testing.
- Attend a livestock auction sale with other members of the class. Select animals on production records, progeny testing, performance testing, or visual appraisal.
- Review an animal sale catalog. Select the most desirable breeding animal described in the catalog for performance testing, progeny testing, etc.
- Evaluate performance tests, production records, and progeny tests on several breeding animals. Report findings to the class.
- Describe an ideal animal (select from any beef, swine, sheep, goat, chicken, etc. species). Other Approved Activities:

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