



# VETERINARY SCIENCE



## WHAT'S IT ALL ABOUT?

A natural compassion for animals and an interest in science is what leads most veterinarians into their field. Learn the role a veterinarian plays in practicing animal and public health while participating in many hands-on activities. These activities will help you learn about the different equipment used by veterinarians, diseases, health problems, and career opportunities as a veterinarian or volunteer. You do not have to own an animal to be in this project.

## HERE'S WHAT YOU CAN LEARN...

### STARTING OUT

- ✿ Recognize major breeds of different species of animals
- ✿ Identify basic needs of animals
- ✿ Investigate the different roles of animals
- ✿ Describe different stages of an animals' life
- ✿ Discover body systems and organs
- ✿ Investigate animal behavior
- ✿ Explore nutrient groups and their function
- ✿ Learn to calculate medical dosages
- ✿ Explore the roles of a vet and the tools they use

### LEARNING MORE

- ✿ Complete animal health records
- ✿ Learn how to recognize and reduce animal stress
- ✿ Investigate how the immune system works
- ✿ Recognize how disease can spread among animals
- ✿ Learn how parasites affect animal health
- ✿ Learn safe food handling and quality assurance
- ✿ Develop an understanding of disease causing agents
- ✿ Investigate veterinarian specialties

### GOING FURTHER

- ✿ Discover the bond between humans and animals
- ✿ Investigate the mammalian reproductive system
- ✿ Learn about breeding and genetics
- ✿ Identify cell structure and function
- ✿ Recognize the importance of zoonotic diseases
- ✿ Learn about preventative medicine
- ✿ Learn about the need to control animal production
- ✿ Investigate technology used in veterinary medicine

### RESOURCES

- ✿ From Airedales to Zebras 08048
- ✿ All Systems Go 08049
- ✿ On the Cutting Edge 08050
- ✿ Veterinary Science Helper's Guide 08051
- ✿ Veterinary Science 1: Animal Behavior 08744 DD
- ✿ Veterinary Science 2: Animal Vital Signs 08745 DD
- ✿ Veterinary Science 3: Disease Transmission 08746 DD
- ✿ Veterinary Science 4: Principles of Biosecurity 08747 DD
- ✿ Veterinary Science 5: Advanced Concepts in Animal Care 08748 DD

## TAKE IT FURTHER!

- ✿ Job shadow a veterinarian, producer, or pet store employee to learn more about how to care for animals
- ✿ Visit a zoo or a farm
- ✿ Research normal heart rate, respiratory rate, and body temperatures of different animals
- ✿ Read Jane Goodall's work about chimpanzee behavior
- ✿ Visit a pharmacist to talk about dispensing of medicine
- ✿ Visits a feed store to learn how feed gets from its original source to an animal, note where threats to feed safety could occur
- ✿ Learn how a complete blood count is performed
- ✿ Attend a youth quality assurance class
- ✿ Learn more about Hazard Analysis Critical Control Points (HACCP) pertaining to food safety
- ✿ Look into artificial insemination, embryo transfer, and cloning
- ✿ Interview a professional animal trainer
- ✿ Talk with someone who has contracted a zoonotic disease and interview them on their experience
- ✿ Visit the University of Wyoming Animal Science Department and the University of Wyoming Vet Lab

### ENHANCE YOUR COMMUNICATION SKILLS

- Write a story to share with others from an animal's point of view about its role
- Create a play about animals and have your club perform it for a local group
- Give a demonstration about reading medical labels

### GET INVOLVED IN CITIZENSHIP AND SERVICE

- Volunteer at the humane society
- Organize a vaccine clinic for dogs, cats, or horses
- Take your pets to a local nursing home
- Volunteer to watch someone's pet

### LEARN ABOUT LEADERSHIP

- Arrange for a local veterinarian or other person who works with animals to come and talk to your project group or club
- Teach others about Punnet Squares and basic genetics
- Sponsor a veterinarian skillathon for your club or community

*Issued in furtherance of extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Glen Whipple, director, University of Wyoming Extension, University of Wyoming, Laramie, Wyoming 82071. The University is committed to equal opportunity for all persons in all facets of the University's operations. All qualified applicants for employment and educational programs, benefits, and services will be considered without regard to race, color, religion, sex, national origin, disability or protected veteran status or any other characteristic*

## EXHIBIT IDEAS

- ✿ A notebook on a breed of animal
- ✿ A display of different types of housing for animals
- ✿ A diorama of the stages of life of an animal
- ✿ A pet food comparisons
- ✿ Create a safety report about an animal's environment
- ✿ A poster identifying tools used by a veterinarian
- ✿ A video library with reviews about movies with animals
- ✿ A chart comparing different animals normal heart rate, body temperature, and respiration rates
- ✿ A poster about a disease
- ✿ A poster about the importance of colostrum
- ✿ Display a lifecycle of a parasite
- ✿ A display about a specialty veterinarian
- ✿ A poster on the reproductive tract and cycle of an animal
- ✿ A display of animal cells and their function