



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

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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