



**COLORADO STATE UNIVERSITY
EXTENSION**



Veterinary Science

Project units 1-3 are designed for members 8-18 years old.

Unit 1 - Airedales to Zebras

Inspiring youth to:

- Identify breeds of various types of animals
- Learn what animals need and their various roles helping people
- Identify threats to animal safety
- Identify animal body systems
- Learn about feed and medication
- Explore careers with animals
- Learn elementary principals of disease

Unit 2 - All Systems Go!

Inspiring youth to:

- Examine health and disease topics
- Learn to recognize normal and abnormal conditions
- Describe how the immune system protects animals from diseases
- Explain how diseases can be spread between animals
- Describe parasite life cycles and how to disrupt them
- Protect animals from unsafe feeds
- Explore veterinary specialties
- Make ethical decisions about animals

Unit 3 - On the Cutting Edge

Inspiring youth to:

- Describe the cycles, organs and hormones involved in animal reproduction
- Explain how genetics influence breeding programs
- Describe cell structure and function
- Design testing strategies to identify diseased animals
- Identify ten diseases that can be spread from animals to humans
- Explain the principles of preventative medicine
- Explain reasons to prevent pet overpopulation
- Describe technology used in the veterinary profession
- Explore the diversity of and preparation for the veterinary profession

Veterinary Science



Tips:

- Include your project manual with your e-Record when submitting your project for judging and exhibiting at fairs.
- Do at least seven activities and Booster Shots each year as listed in each manual along with the date completed and your leader's or parent's/guardian's initials
- Be sure to attach the Booster Shots activities after the manual and before the e-record in a secured sturdy binder
- Look up information in the library or on the internet
- Visit with your veterinarian
- Take trips and tours
- Enter your project in the county fair
- Share information learned in talks and displays
- Consider doing an internship or community service with animals



Resources:



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- Exhibit & Judging Requirements
- Record Books
- Manual Information

Located at: Colorado4h.org



**Beyond
Ready**

Veterinary Industry Careers



Medicine

Veterinarian or technician for animals in the wild, zoos, private practice, university hospitals, research, and more



Research

Create new clinical therapies and products to overall health and well-being for animals



Nutrition

Provide nutritional advice, dietary analysis, and education ensuring animals are healthy



Sales

Provide product support and education to veterinarians, businesses, and consumers



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Degrees/Certifications:

Veterinary Medicine (Doctor & Technician)

Microbiology

Physical Therapy & Acupuncture

Search & Rescue Certifications

Nutrition

Marketing & Sales

Disease Management

Zoologist



Diagnostic

Provide diagnostic services to test for potential diseases or illnesses



Education

Opportunity to teach others about animals and health



Regulation

Help prevent unwanted diseases and invasive species going in and out of the United States



Inspection

Provide inspection services for meat and products for animal use to ensure safety and quality