



# Animal Science

# 4-H Veterinary Science

## North Dakota 4-H Project Sheet

Do you have an animal you want to keep healthy or are you interested in a career in keeping animals healthy? The 4-H veterinary science project helps you explore and learn more about animal health in your home, club, community, country and world. Increase your knowledge about how animal health affects public health!



- Appreciate the importance of good management and sanitation practices in keeping animals and birds healthy.
- Learn the values of scientific research and its influence on animals and their health.
- Explore large- and small-animal veterinary medicine.

## Here's what you can do all year!

Starting Out Basic/Level 1	Learning More Intermediate/Level 2	Expanding Horizons Advanced/Level 3
<ul style="list-style-type: none"> <li>• Understand differences of species in body styles, systems, breeds and life stages.</li> <li>• Explore basic animal needs and health/safety.</li> <li>• Learn how veterinarians and owners work together to keep animals healthy.</li> <li>• Investigate the many careers of animal and veterinary science.</li> </ul>	<ul style="list-style-type: none"> <li>• Discover the importance of food safety and quality assurance.</li> <li>• Explore biosecurity and an animal health management plan for animals.</li> <li>• Consider ethics and animal welfare.</li> <li>• Develop and maintain accurate health records for animals and pets.</li> <li>• Investigate health issues related to body systems, diseases, parasites and the importance of immunity.</li> </ul>	<ul style="list-style-type: none"> <li>• Incorporate science into understanding genetics and animal reproduction and health.</li> <li>• Research the use of veterinary technology and procedures.</li> <li>• Identify the transfer of diseases between animals and humans.</li> <li>• Further explore nonveterinary, animal-related careers.</li> </ul>

### Pass it on!

**Now that you know how, share it with others. Here are ideas to get you started.**

### Communication

- Give a presentation on types of injections and how to vaccinate animals.
- Develop an animal health management plan with a veterinarian.
- Help present a food safety quality assurance session.

### Citizenship

- Volunteer at a local veterinary clinic.
- Volunteer at Animal Rescue League.
- Start a campaign encouraging pet owners to neuter and spay their pets.

### Leadership

- Help members develop a health-care plan for their animal projects.
- Create a biosecurity informational sheet and kit for 4-H members to keep at their livestock areas.
- Organize a pet first aid class through your local Red Cross chapter.

### Entrepreneurship

- Job shadow a veterinarian or veterinary technician.

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Learn more at [www.ndsu.edu/4h/](http://www.ndsu.edu/4h/) or contact your county NDSU Extension office.



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### Opportunities to explore the veterinary science project:

- Assist with a local food safety quality assurance class for younger 4-H members.
- Schedule a job shadow with your local veterinarian.
- Set up a local/area animal disease emergency preparedness and response team.
- Consider a communications speech or develop a poster or video for your county fair or achievement days. It may be chosen to go to the North Dakota State Fair.
- Volunteer to teach a project activity day session on pet health care.
- Contact your county NDSU Extension office for other local workshops, activities and events in your area.
- Interested in a college education in animal science or veterinary medicine? Schedule a visit with NDSU ([www.ndsu.edu](http://www.ndsu.edu)) to explore those majors.



### Exhibit Ideas

- Create a display of products that come from livestock or other animals.
- Compare/contrast various health management plans for a type of animal.
- Interview a veterinarian and report on the various parts of his/her job.
- Create a display showing the difference in animal digestive systems.
- Create a poster illustrating the types of injections for animals.
- Research domestic animal health issues and how they affect people.
- Research wild animal health issues and how they affect people.
- Create a first aid kit for large or small animals.
- Make a poster showing how to provide first aid to an animal.
- Make a poster about foods, plants and/or household items that are poisonous to animals.
- Learn about newly approved feed additives for livestock.
- Show the growth curve during an animal's lifetime.
- Develop a video on proper hoof or nail care for an animal.
- Develop a video or PowerPoint on ethics in the livestock industry.

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4-H Resources	Other Resources	Recordkeeping
<ul style="list-style-type: none"> <li>• <a href="#">National Curriculum</a> <ul style="list-style-type: none"> <li>- <a href="#">From Airedales to Zebras</a> (HBI111)</li> <li>- <a href="#">All Systems Go</a> (HBI112)</li> <li>- <a href="#">On the Cutting Edge</a> (HBI113)</li> <li>- <a href="#">Veterinary Helper's Guide</a> (HBI211)</li> </ul> </li> <li>• <a href="#">Educational Trunks</a> <i>(check out by contacting local Extension office)</i> <ul style="list-style-type: none"> <li>• Beef</li> <li>• Dairy</li> <li>• Dog</li> <li>• Goat</li> <li>• Horse</li> <li>• Poultry</li> <li>• Sheep</li> <li>• Swine</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">North Dakota Veterinary Medical Association</a></li> <li>• <a href="#">American Veterinary Medical Association</a></li> <li>• <a href="#">American Association of Veterinary Medical Colleges</a></li> <li>• <a href="#">AVMA – Pet First Aid</a></li> <li>• <a href="#">Healthy Pets</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">4-H Project Plan (PA095)</a></li> <li>• <a href="#">Planning for My Project Adventure (PA093) (Ages 8-10)</a></li> <li>• <a href="#">4-H Plan of Action (PA096) (Ages 11-18)</a></li> <li>• <a href="#">ND 4-H Participation Summary for 11- to 19-year-olds (PA098)</a></li> </ul> <hr/> <p style="text-align: center;"><b>Contests</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Dairy Judging Contest</a></li> <li>• <a href="#">Horse Judging Contest</a></li> <li>• <a href="#">Horse Quiz Bowl</a></li> <li>• <a href="#">Hippology Contest</a></li> <li>• <a href="#">Livestock Judging Contest</a></li> </ul>

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