

Advanced Vet Science Project application:

Tentative Meeting Dates will be:

The second weekend in October, December, February, April, June

Jenny Smith and Shanna Braught, the project leaders for the County Wide Advanced Vet Science Project are very excited for meetings to begin in October. Local veterinarians, as well as veterinarians from the School of Veterinary Medicine at the University of California, Davis will be leading the meetings at the UC Hopland Research and Extension Center. The meetings will be approximately 4 hours long.

This Project is targeted at members with a serious and committed interest in animal science and veterinary medicine. The subject matter is advanced. Potential topics are:

- The Basics: Animal assessment, Injury assessment, Effective communication with your veterinarian, Animal first aid
- Orthopedics
- Animal physiology/organ systems
- Reproduction and reproductive physiology
- Necropsy
- Parasitology

Meetings will give members a great opportunity to work one on one with veterinarians and to gain a more thorough understanding of animal medicine and the important role animal husbandry plays in relation to their animal's health. Meetings will be hands on and members are expected to learn by getting their hands dirty and interacting with the veterinarian(s) leading each meeting.

The project is open to 12 members only, grades 8 through 12. Those members are expected to submit an application explaining their past animal science experience and what they hope to learn from the project. In addition, the applicants will complete the first level (five in total) of the 4-H Veterinary Science Proficiency Program [UC Davis and Tehema County 4-H] and will receive a proficiency pin for their efforts. Congratulations to those members who will have the opportunity to take part in this new and exciting project.

Mendocino County 4-H
ADVANCED VET SCIENCE INFORMATION SHEET

Meeting dates: Will be announced at a later date, but will most likely be the 2nd weekends of October, December, February, April and June (can be flexible if there is advanced notice 8 weeks ahead of date).

Project contact persons:

Shanna Braught – shan@willitsonline.com – (707)984-6763
PO Box 3, Laytonville, CA 95454-0003
Jennifer Smith – jensmith@ucdavis.edu – (707)744-1424 ext. 110
Linda Edgington – Ukiah 4H Office – (707)463-4495

Project leaders and meeting location:

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Project overview:

This project is targeted at members with a serious and committed interest in animal science and veterinary medicine. The subject matter is advanced. Meetings will give members a great opportunity to work one on one with veterinarians and to gain a more thorough understanding of animal medicine and the important role animal husbandry plays in relation to their animals' health.

Meetings will be hands on and members are expected to learn by getting their hands dirty and interacting with the veterinarian(s) leading each meeting.

Potential meeting topics:

- The Basics: Animal assessment
Injury assessment
Effective communication with your veterinarian
Animal first aid
- Orthopedics
- Animal physiology/ organs systems
- Reproduction and reproductive physiology
- Necropsy
- Parasites

Mendocino County 4-H
ADVANCED VET SCIENCE APPLICATION

This project is offered for members grades 8-12. Eighty percent attendance is required to project completion.

Section 1

Name: _____ Age: _____

Grade: _____ Years in 4-H: _____

Briefly describe your animal science experience and why you are interested in being a part of this project: _____

List two things you are hoping to learn from being in this project: _____

Is your parent or guardian aware of the time commitment this project requires and are they willing to transport you to and from meetings on time?

Parent or guardian signature

date

Section 2

To the best of your ability, please complete the ***Veterinary Science, Level I -Explorer*** sheet attached.

Send completed application to: Shanna Braught By: September 10th
You will be contacted by September 20th

VETERINARY SCIENCE
Level I - Explorer

1. Describe 5 behaviors that might be used to diagnose the presence of disease in an animal.
2. What is the normal body temperature of the following animals:
 - Cattle
 - Swine
 - Dog
 - Cat
 - Horse
 - Fowl
 - Goat
 - Sheep
3. Explain what a pulse is. Where do you take the pulse on cattle and horses?
4. Define respiration. What are the respiration rates of two large and two small animals?
5. Name 3 factors which should be considered when choosing, locating and constructing housing for your animal.
6. Name 3 instances in which cleanliness and disinfection are important and tell why.
7. What are the three main parts of a cell and what is the important job each one does?
8. Name 4 basic tissues of the animal and give each of their functions.
9. Define the term "organ system" and give five examples.
10. Explain the main difference between ruminant and monogastric animals.
11. What is a parasite? Identify the two main types of parasites and give two examples of each of three different species.
12. Describe the steps that are taken to test a fecal sample of an animal for internal parasites.
13. What is equine colic? What are some signs?
14. Define necropsy. Why does a veterinarian perform necropsy?
15. Define dystocia. Give three examples of dystocia.
16. Give an example of a situation in which a veterinarian might use an x-ray machine.

****Taken from the "4-H Veterinary Science Proficiency Program, A Member's Guide," Univ. of California, Davis and Tehema County 4-H****