



Small Animal Vet Science Chilton High School

Course Description: This course is designed for people interested in small animals. Students will have the opportunity to work with animals daily by feeding, handling and cleaning them. Students will also gain “hands on” experience in giving injections, applying first aide and suturing wounds. Students will develop a basic understanding of animal nutrition, reproduction, diseases and health care. Guest speakers, demonstrations, fieldtrips, labs and career exploration are also a part of this course.

Objectives:

- To compare opportunities in small animal care and management
- To describe the nature of work, salaries, and requirements necessary for obtaining a job in the area of small animal care
- To discuss the animal care industry and how it affects all of us

- To list questions a person should ask before obtaining a pet
- To compare different places to obtain pets
- To describe benefits of pets
- To define euthanasia
- To discuss the use of euthanasia with pets

- To explain the importance of safety when working and playing with small animals
- To list types of diseases that can be transmitted from animals to humans
- To describe how to prevent the spreading of disease
- To construct a list of safety guidelines to be used when handling small animals
- To give intramuscular, intravenous, intradermal and subcutaneous injections into fruit
- To practice wrapping a wound on a stuffed animal
- To suture 6 basic suture patterns on a banana

- To compare animal rights and animal welfare
- To debate issues of animal rights and animal welfare
- To discuss animal rights activists vs. animal welfare members and their roles in society

To list the six essential nutrients and their functions
To describe the differences between a monogastric and ruminant digestive system
To draw the avian digestive system
To list the nutritional needs of small animals and deficiency signs
To compare pet food via manufacturer's labels
To discuss the ingredients used in pet foods and the nutrient content of feeds

To develop a timeline that notes the history of the dog
To list and define the seven groups of dogs
To identify popular dog breeds
To explain nutritional needs and proper feeding methods for dogs
To demonstrate training methods for dogs
To read, discuss and identify treatments for dog diseases and disorders
To discuss dog reproduction

To explain the history of cats
To list the major cat groups and breeds
To identify popular cat breeds
To describe the nutritional needs of cats
To compare cat foods vs. dog foods
To identify symptoms, disorders and suggest treatments for cat diseases
To discuss cat reproduction

To draw out the history of rabbits
To list the uses of rabbits
To categorize rabbits into weight groups
To visually identify rabbit breeds
To read the nutritional requirements of rabbits and compare rabbit feeds
To discuss rabbit reproduction
To describe rabbit diseases, symptoms and treatments

To identify common hamster and guinea pig breeds
To list diseases, symptoms and cures of hamsters and guinea pigs

To list characteristics of fish
To maintain fish tanks and discuss the elements needed to operate a healthy tank
To categorize common disease and treatment methods of fish

To discuss animal behaviors and training methods
To practice training a rat with positive reinforcement (skinner box)
To describe the benefits of positive reinforcement as a training method
To apply training methods learned
To monitor rat growth and determine amount of food required daily for rats
To record rat health care data
To properly handle and care for rats

To discuss the reproduction of rodents
To list rodent diseases

Competencies:

At the conclusion of this course, students will be able to:

Compare opportunities in small animal care and management
Describe the nature of work, salaries, and requirements necessary for obtaining a job in the area of small animal care

Discuss the small animal industry and its effects on people

List questions a person should ask before obtaining a pet

Compare different places to obtain pets

Describe benefits of pets

Define euthanasia

Discuss the use of euthanasia with pets

Explain the importance of safety when working and playing with small animals

List types of diseases that can be transmitted from animals to humans

Describe how to prevent the spreading of disease

Construct a list of safety guidelines to be used when handling small animals

Compare animal rights and animal welfare

Debate issues of animal rights and animal welfare

Discuss animal rights activists vs. animal welfare members and their roles in society

List the six essential nutrients and their functions

Describe the differences between a monogastric and ruminant digestive system

List the nutritional needs of small animals and deficiency signs

Compare pet food via manufacturer's labels

Discuss the ingredients used in pet foods and the nutrient content of feeds

Develop a timeline that notes the history of the dog

List and define the seven groups of dogs

Identify popular dog breeds

Explain nutritional needs and proper feeding methods for dogs

Demonstrate training methods for dogs

Read, discuss and identify treatments for dog diseases and disorders

Discuss dog reproduction

Explain the history of cats

List the major cat groups and breeds

Identify popular cat breeds

Describe the nutritional needs of cats

Compare cat foods vs. dog foods

Identify symptoms, disorders and suggest treatments for cat diseases

Discuss cat reproduction

Draw out the history of rabbits

List the uses of rabbits

Categorize rabbits into weight groups

Visually identify rabbit breeds

Read the nutritional requirements of rabbits and compare rabbit feeds

Discuss rabbit reproduction

Describe rabbit diseases, symptoms and treatments

Identify common hamster and guinea pig breeds

List diseases, symptoms and cures of hamsters and guinea pigs

List characteristics of fish

Maintain fish tanks and discuss the elements needed to operate a healthy tank

Categorize common disease and treatment methods of fish

Discuss animal behaviors and training methods

Practice training a rat with positive reinforcement (skinner box)

Describe the benefits of positive reinforcement as a training method

Apply training methods learned

Monitor rat growth and determine amount of food required daily for rats

Record rat health care data

Properly handle and care for rats

Discuss the reproduction of rodents

List rodent diseases

Subject Matter:

Unit 1

Careers in Small Animal Vet Care

Small Animal Industry

Pet Care Workers

Zoo Animal Caretakers

Laboratory Animal Care Workers

Small Animal Breeds

Animal Trainers

Dog Groomers

Veterinarians

Veterinarian Technicians

Biologists

Define job

Education and training requirements

Employment outlook

Salary and benefits

More information

Unit 2

Small Animals as Pets and First Aide

- Choosing to buy a pet
- Places to obtain pets from
- Benefits of pets to humans
- Euthanasia

Unit 3

Safety and Pet First Aide

- Risks with small animals
- Bites & Zoonoses
- Cleaning cautions
- Wrapping wounds
- Giving injections
- Sutures

Unit 4

Animals Rights and Animal Welfare

- History
- Animal Issues
- Current trends of people

Unit 5

Nutrition

- 6 Essential Nutrients
- Digestion processes
- Monogastrics
- Ruminants

Unit 6

Dogs

- History
- Dog groups
- Breeds
- Anatomy
- Feeding
- Exercise and training
- Diseases
- Reproduction

Unit 7

Cats

- History
- Cat groups
- Cat breeds
- Anatomy

Feeding
Diseases
Reproduction

Unit 8

Rabbits

History
Uses
Anatomy
Breeds
Housing
Feeding
Diseases
Reproduction

Unit 9

Hamsters & Guinea Pigs

History
Handling
Feeding
Diseases
Reproduction

Unit 10

Fish

Anatomy
Digestive System
Equipment
Feeding
Diseases
Reproduction

Unit 11

Animal Behavior/Rats

Feeding and Handling of rats
Rat health care
B.F. Skinner- "Skinner Box"
Positive reinforcement
Animal Behaviors

Learning Activities:

Caring for animals in the classroom
Students will be assigned a rat to weigh and monitor growth rates daily
Demonstrate how to groom a pet
Guest speakers
Raise hamsters in the classroom

Tour an animal hospital
Tour a humane society
Research a career of choice
Give injections
Wrap wounds
Practice suture patterns

Student Text:

Warren, Dean. Small Animal Care and Management. Delmar Publishing, Albany, Ny. 1995.